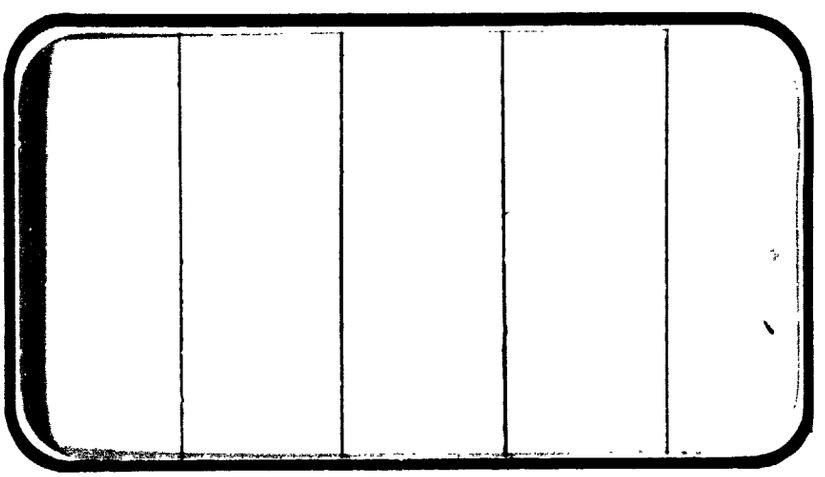
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION



SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

March 1977

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NASA CR-151,061 .

TRANSONIC CONTROL EFFECTIVENESS FOR FULL AND PARTIAL SPAN ELEVON CONFIGURATIONS ON A 0.0165 SCALE MODEL SPACE SHUTTLE ORBITER TESTED IN THE LaRC 8-FOOT TRANSONIC PRESSURE TUNNEL (LA48)

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Michoud Defense-Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Numbers:	LaRC 8' TPT 680
NASA Series Numbers:	LA48
Model Number:	089B-139
Test Dates:	April 10 through 15, 1974
Occupancy Hours:	48

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Chrysler Corporation Michoud Defense-Space Division assumes no responsibility for the data presented other than display characteristics.

TRANSONIC CONTROL EFFECTIVENESS FOR FULL AND PARTIAL SPAN ELEVON CONFIGURATIONS ON A 0.0165 SCALE MODEL SPACE SHUTTLE ORBITER TESTED IN THE LARC 8-FOOT TRANSONIC PRESSURE TUNNEL (LA48)

ABSTRACT

An experimental investigation has been conducted in the NASA-Langley Research Center 8-Foot Transonic Pressure Tunnel on an early version of the space shuttle orbiter (designated 089B-139) 0.0165 scale model to systematically determine both longitudinal and lateral control effectiveness associated with various combinations of inboard, outboard, and full span wing trailing edge controls. This report presents results from transonic investigations conducted from April 10 through 15, 1974. The test was conducted over a Mach number range from 0.6 to 1.08 at angles of attack from -2° to 23° at 0° sideslip.

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SCHEDULE OF COEFFICIENTS:

NOMENCLATURE
General

SYMBOL	MNEMONIC	DEFINITION
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_l - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2, psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m^2, psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3, $slugs/ft^3$
		Reference & C.G. Definitions
A_b		base area; m^2, ft^2
b	BREF	wing span or reference span; m, ft
b/2		wing semi-span
c.g.		center of gravity
l_{REF} $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2, ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

SYMBOL	MNEMONIC	DEFINITION
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
		Stability-Axis System
C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS\ell_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qSb}$
C_ℓ	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qSb}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}
δ_{SB}	SPDBRK	speed brake deflection angle, deg.

NOMENCLATURE (Concluded)

SYMBOL	MNEMONIC	DEFINITION
$C_{D_{\delta_e}}$	DCD/DE	Slope of drag coefficient vs. elevon deflection curve; $dC_D/d\delta_e$, per degree
$C_{L_{\delta_e}}$	DCL/DE	Slope of lift coefficient vs. elevon deflection curve; $dC_L/d\delta_e$, per degree
$C\ell_a$	DCRLDA	Slope of rolling moment coefficient vs. aileron deflection curve, $dC_\ell/d\delta_a$, per degree
$C_{m_{\delta_e}}$	DCM/DE	Slope of pitching moment coefficient vs. elevon deflection curve, $dC_m/d\delta_e$, per degree
$C_{Y_{\delta_a}}$	DCY/DA	Slope of side force coefficient vs. aileron deflection curve, $dC_Y/d\delta_a$, per degree
$C_{n_{\delta_a}}$	DCYNDA	Slope of yawing moment coefficient vs. aileron deflection curve, $dC_Y/d\delta_a$, per degree
δ_a	AILTON	Aileron deflection angle; elevon deflection for roll control, $(\delta_{e_L} - \delta_{e_R})/2$, positive deflection left panel trailing edge down
δ_e	ELEVTR	Elevator deflection angle; elevon deflection for pitch control $(\delta_{e_L} + \delta_{e_R})/2$, positive deflection trailing edge down
$\delta_{e_{L_O}}$	ELV-LO	Left outboard elevon panel deflection, degrees
$\delta_{e_{L_I}}$	ELV-LI	Left inboard elevon panel deflection, degrees
$\delta_{e_{R_I}}$	ELV-RI	Right inboard elevon panel deflection, degrees
$\delta_{e_{R_O}}$	ELV-RO	Right outboard elevon panel deflection, degrees
$C_{m_{\delta_{e_I}}}$	DCMIDE	Slope of pitching moment coefficient versus inboard elevon deflection curve, per degree
	DCMI/F	Ratio of the slopes of the inboard elevon pitching moment curve over the full span elevon pitching moment curve
δ_{BF}	BDFLAP	body flap deflection angle, deg.

INTRODUCTION

In a continuing effort to identify the most suitable space shuttle concept, a joint study between Langley Research Center, Johnson Space Center, and Rockwell International has been undertaken to determine if the incremental operation of the four elevon surfaces of the orbiter could result in a more efficient use of available control power, reduced elevon deflections, and associated aeroelastic wing bending, to allow a more flexible flight profile without adverse control characteristics.

This report, an experimental investigation at subsonic and supersonic speeds, was initiated at Langley to systematically determine both longitudinal and lateral control effectiveness associated with various combinations of inboard, outboard, and full span wing trailing edge controls for a shuttle orbiter configuration. Due to the unavailability of a current vehicle configuration, the model employed in this study was a 0.01[illegible] scale earlier version of the orbiter designated by Rockwell International as configuration 089B-139. The differences between this configuration and the current design (vehicle 5) were not felt to be sufficient to alter the incremental effectiveness presented herein. This report presents the transonic results obtained in the overall study. Utilizing the Langley 8-Foot Transonic Pressure Tunnel, the Mach number range of the investigation was 0.60 to 1.03. Angle of attack was varied from about -4° to as much as 23° at 0° of sideslip. Supersonic results are presented in the reference.

CONFIGURATIONS INVESTIGATED

The configuration tested was a 0.0165 scale model of a blend of Rockwell International shuttle configurations consisting of a 089B configuration with a 139B configuration nose forward of fuselage station 500. A sketch and photographs of the model are shown in figures 2 and 3, respectively. Body base flap was fixed at 0° deflection.

Elevon controls were split at 0.60 b/2 giving the inboard and outboard segments approximately 53 percent and 47 percent of the total elevon area, respectively. The surfaces could be deflected in unison or as individual panels. Maximum range of deflection for each panel was from 0° to -40°. Combinations tested included: for pitch control, inboards only, outboards only and full span; for roll control, outboards only with full span and inboard deflected for pitch control.

To expedite testing, the elevons were remotely controlled by four internal electric motors (see fig. 2c).

A complete description of model dimensional data is given in Table III.

TEST CONDITIONS

The model was sting supported, with aerodynamic forces and moments measured by an internally mounted six-component strain gage balance. Model angle of attack was varied from about -2° to as much as 23° for an angle of sideslip of 0°. Reynolds number was constant at a nominal 3.0×10^{6} per foot. Angle of attack has been corrected for deflection of the sting and balance under load.

Transition strips 0.063 inch wide composed of No. 120 sand grit were located 1.0 inch aft of the apex of the fuselage and 0.5 inch (measured streamwise) aft of the wing and fillet and vertical tail leading edges.

Drag data presented herein represent gross drag in that measured drag is uncorrected for base pressure effects.

TEST FACILITY DESCRIPTION

NASA/Langley Research Center 8-Foot Transonic Pressure Tunnel is an air-medium facility capable of attaining continuously variable Mach numbers from 0.20 to 1.30. It is a single-return, closed-circuit tunnel, having controlled stagnation temperature, total pressure, and dew-point temperature. The test section is 7.1 feet square. Reynolds numbers are variable from 0.30×10^6 per foot to 7.00×10^6, depending on Mach number and tunnel total pressure limitations. Models are supported in the test section by a sting-sector system, but wall-mounting is possible. Schlieren photography is available for flow and shock-wave studies.

DATA REDUCTION

Data are recorded at the facility and reduced off-line at the LARC Computation Center. Longitudinal data are referred to the stability-axis system and lateral-directional data are referred to the body-axis system. All coefficients are normalized with respect to the projected wing area (excluding the fillet), mean aerodynamic chord or span, which are:

SREF = wing projected area = 0.732 Ft.^{2}

LREF = wing mean aerodynamic chord = 7.834 in.

BREF = wing span = 15.45 in.

All data are presented along a set of body and stability axes (Figure 1) passing through the estimated forward center of gravity located at a full scale fuselage station of 1076.48 in. or 65% of the actual body length.

Elevon and aileron derivative data were computer-generated by the Chrysler DATAMAN-SADSAC Program and represent the local slope of the coefficient vs. control deflection at each value of angle of attack.

REFERENCE

1. DMS-DR-2182, "SUPERSONIC CONTROL EFFECTIVENESS FOR FULL AND PARTIAL SPAN ELEVON CONFIGURATIONS ON A 0.0165 SCALE MODEL SPACE SHUTTLE ORBITER TESTED IN THE LaRC UNITARY PLAN WIND TUNNEL (LA49)."

TABLE I

TEST : LaRC 8' TPT 680 (LA43) DATE : 8-1-77

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per foot)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	2.37×10^6	2.17	100
0.80	2.82×10^6	3.24	
0.85	2.92×10^6	3.48	
0.90	2.98×10^6	3.70	
0.98	3.00×10^6	3.72	
0.95	3.04×10^6	3.90	
0.98	3.07×10^6	4.01	
1.08	3.14×10^6	4.33	

BALANCE UTILIZED: WT07-100

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	600 lb.	± 3.0 lb.	
SF	300 lb.	± 1.5 lb.	
AF	100 lb.	± 0.5 lb.	
PM	300 in.-lb	± 4.0 in.-lb.	
RM	400 in.-lb	± 2.0 in.-lb.	
YM	600 in.-lb	± 3.0 in.-lb.	

COMMENTS:

TABLE II

TEST: 8'-TPT-680 (LA-48) — DATA SET/RUN NUMBER COLLATION SUMMARY — DATE: 5/30/74

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	δ_{OB}	δ_{OB}	δ_{SBI}	δ_{SBA}	NO. OF RUNS	MACH .60	.80	.85	.90	.92	.95	.98	1.08	TEST RUN NUMBERS
RHI001	089B ORBITER W/	A	A	0	0	0	0		71	61	51	41	31	21	11	1	
02	139 NOSE			0	-10	-10	0		72	62	52	42	32	22	12	2	
03	$\delta_{SB}=25°$, $\delta_{BF}=0$			0	-20	-20	0		73	63	53	43	33	23	13	3	
04				0	-30	-30	0		74	64	54	44	34	24	14	4	
05				-10	-10	-10	-10		75	65	55	45	35	25	15	5	
06				-20	-20	-20	-20		76	66	56	46	36	26	16	6	
07				5	0	0	-5		77	67	57	47	37	27	17	7	
08				5	-20	-20	-5		78	68	58	48	38	28	18	8	
09				10	-20	-20	-10		79	69	59	49	39	29	19	9	
10				-15	-20	-20	-25		80	70	60	50	40	30	20	10	
11				-10	-20	-20	-30		96	93	92	89	88	85	84	81	
12				0	-10	-10	-20		95	94	91	90	87	86	83	82	
13				-10	0	0	-10		97								
14				-20	0	0	-20		98								
15				-30	0	0	-30		99								

1 7 13 19 25 31 37 43 49 55 61 67 75 76

PBFA CN CA CBN CBI CYN CY CL CD L/D MACH ALPHA LO

IDVAR (1) IDVAR (2) NDV

α OR β SCHEDULES: A= -2° → 22°, Δ= 2°

Coefficients

TABLE III
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B20

GENERAL DESCRIPTION : 089B-139B (MODIFIED NOSE), NOSE SECTION FROM FULL-SCALE STATION 238, 0 TO STATION 500 FROM NAR DRAWING VL70-0001393. REMAINING BODY AFT OF STATION 500 FROM NAR VL70-000023.

MODEL SCALE 0.0165

DRAWING NUMBER : VL70-000023, VL70-000139B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	1290.3 IN.	21.290 IN.
Max Width	265.0	4.372 IN.
Max Depth	248.0	4.092 IN.
Fineness Ratio	4.869	4.869 IN.
Area	456.4000 SQ.FT.	17.8927 SQ.FT.
Max. Cross-Sectional		
Planform		
Wetted		
Base		

TABLE III (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY FLAP-FL

GENERAL DESCRIPTION : 089B-139

MODEL SCALE: 0.0165

DRAWING NUMBER : VL10-000094A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	84.700	1.398
Max Width	265.000	4.372
Max Depth	21.000	.346
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform	142.6400	5.5921
Wetted		
Base	38.6460	1.5151

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MODEL III (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT : OMS POD - M[14]

GENERAL DESCRIPTION : 030D-139

MODEL SCALE: 0.0165

DRAWING NUMBER : VL70-000094

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	346.000	5.709
Max Width	108.000	1.782
Max Depth	113.800	1.878
Fineness Ratio		
Area		
Max. Cross-Sectional		
Planform		
Wetted		
Base		
OMS POD CENTERLINE:		
Z Axis Orbiter	463.900	7.654
Y Axis Orbiter	80.000	1.320

TABLE III (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT SEGMENTED ELEVON (6-inch GAP) - E_{43}

GENERAL DESCRIPTION Configuration 140A/B Orbiter elevon.

NOTE: E_{43} is a sloted version of E_{26}. Data are for one side.

MODEL SCALE: 0.0165 MODEL DRAWING: SS-A00148

DRAWING NUMBER

DIMENSIONS :	FULL SCALE	MODEL SCALE
Area - Ft^2	210.0	0.0572
Span (equivalent) - In.	349.2	5.760
Inb'd equivalent chord - In.	118.004	1.947
Outb'd equivalent chord/ total surface chord	55.192	0.9108
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.2096	0.2306
At Outb'd equiv. chord	0.4004	0.4404
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Trailing Edge	-10.056	-10.056
Hingeline	0.00	0.00
Area Moment (Normal to hinge line)	1587.25	0.00713
Mean Aerodynamic Chord ($\bar{c}$), in.	20.7	1.4076

TABLE III (Continued)
MODEL DIMENSIONAL DATA

MODEL COMPONENT [illegible] - B5

GENERAL DESCRIPTION CONFIGURATION PER LINES VL70-000095.

MODEL SCALE: 0.0165

DRAWING NUMBER VL70-000095

DIMENSIONS	FULL SCALE	MODEL SCALE
Area	106.380 SQ.FT.	.0090 SQ.FT.
Span (equivalent)	201.00 IN.	3.30 IN.
Inb'd equivalent chord	91.585 IN.	1.51 IN.
Outb'd equivalent chord	50.833 IN.	.84 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	.400	.400
At Outb'd equiv. chord	.400	.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83 DEG.
Trailing Edge	26.25	26.25 DEG.
Hingeline	34.83	34.83 DEG.
Area Moment (Normal to hinge line)	526.1250 CU.FT.	4.0840 CU.IN.

TABLE III (Continued)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : VERTICAL TAIL - V_5

GENERAL DESCRIPTION CENTERLINE VERTICAL TAIL DOUBLE WEDGE AIRFOIL WITH ROUNDED LEADING EDGE.

MODEL SCALE: 0.0105

DRAWING NUMBER VLT0-000025

DIMENSIONS	FULL SCALE	MODEL SCALE
Area	413.2500 SQ.FT.	16.2011 SQ.IN.
Span (equivalent)	315.72	5.21 IN.
Inb'd equivalent chord	268.50 IN.	4.43 IN.
Outb'd equivalent chord	108.47 IN.	1.79 IN.
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge	45.00 DEG.	45.00 DEG.
Trailing Edge	26.249 DEG.	26.25 DEG.
Hingeline		
Area Moment (Normal to hinge line)		

TABLE III (Concluded)

MODEL COMPONENT: WING - [illegible]

GENERAL DESCRIPTION: [illegible] CONFIGURATION PER LINES VL70-000003 (DIHEDRAL TO BE MEASURED AT THE LOWER SURFACE OF THE WING AT THE 75.33 PERCENT ELEMENT LINE PROJECTED INTO A PLANE PARALLEL TO THE FUSELAGE REFERENCE LINE).

MODEL SCALE: - 0.015

DRAWING NUMBER: VL70-000003

DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA		
Area		
Planform	2690.0000 SQ.FT.	105.4[illegible] SQ.IN.
Wetted	[illegible]	[illegible]
Span (equivalent)	936.580 IN.	15.[illegible] IN.
Aspect Ratio	2.[illegible]	[illegible]
Rate of Taper	1.177	1.[illegible]
Taper Ratio	.200	.200
Dihedral Angle, degrees	3.500 DEG.	3.500 DEG.
Incidence Angle, degrees	3.000 DEG.	3.000 DEG.
Aerodynamic Twist, degrees	3.000 DEG.	3.000 DEG.
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	45.000 DEG.	45.000 DEG.
Trailing Edge	-10.240 IN.	-10.240 DEG.
0.25 Element Line	35.209 DEG.	35.240 DEG.
Chords:		
Root (Wing Sta. 0.0)	689.24 IN.	11.[illegible] IN.
Tip, (equivalent)	137.85 IN.	2.[illegible] IN.
MAC	474.31 IN.	7.[illegible] IN.
Fus. Sta. of .25 MAC	113[illegible].00 IN.	16.[illegible] IN.
W.P. of .25 MAC	299.13 IN.	3.61 IN.
B.L. of .25 MAC		
Airfoil Section		
Root		
Tip		
EXPOSED DATA		
Area	1752.2000 SQ.FT.	68.6[illegible] SQ.IN.
Span, (equivalent)	720.68 IN.	11.[illegible] IN.
Aspect Ratio	2.058	2.05[illegible]
Taper Ratio	.2451	.2451
Chords		
Root	562.40 IN.	9.[illegible] IN.
Tip	137.86 IN.	2.[illegible] IN.
MAC	393.33 IN.	6.[illegible] IN.
Fus. Sta. of .25 MAC	1[illegible]5.31 IN.	16.[illegible] IN.
W.P. of .25 MAC	300.00 IN.	4.[illegible] IN.
B.L. of .25 MAC	143.[illegible] IN.	2.[illegible] IN.

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

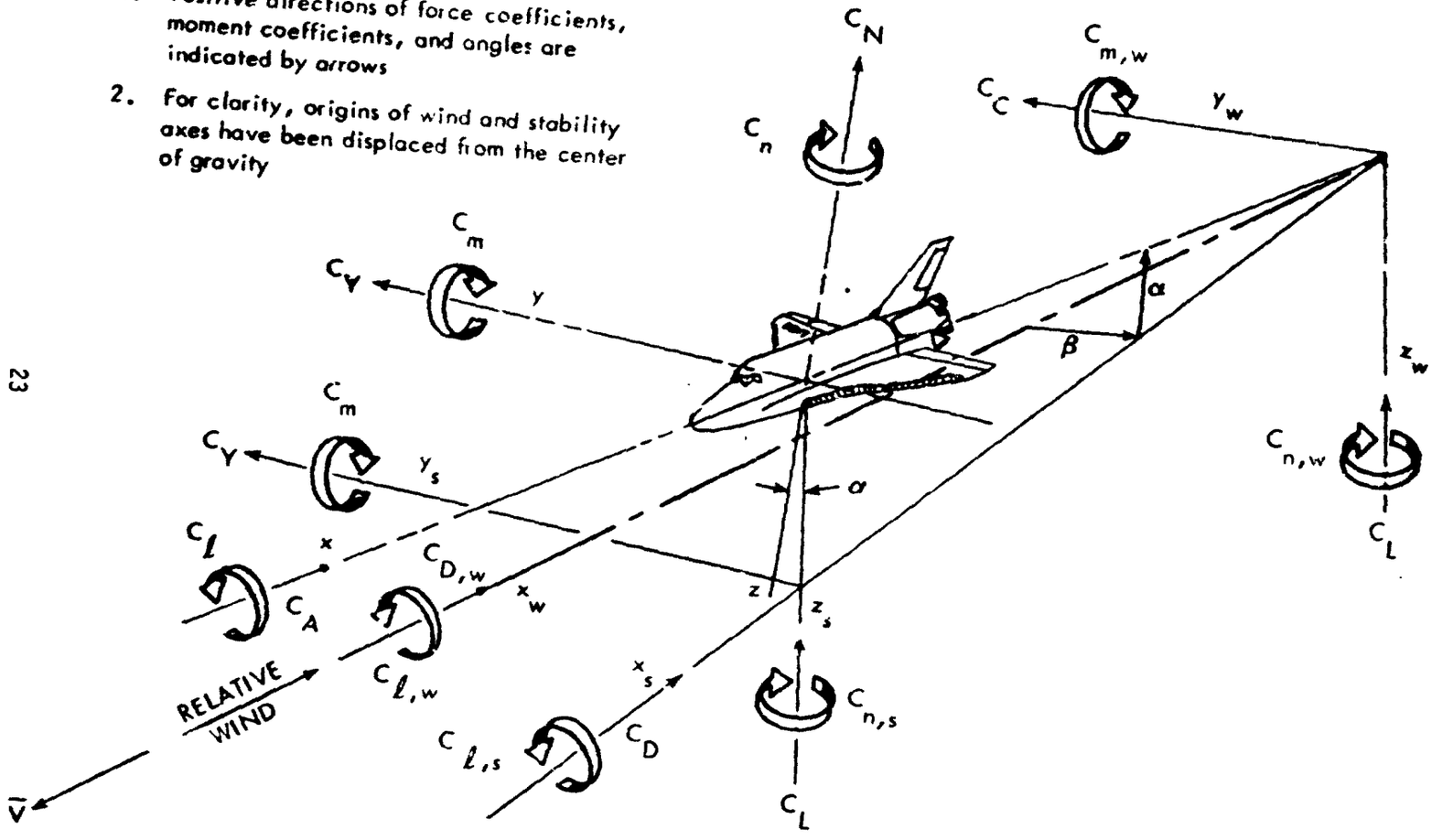
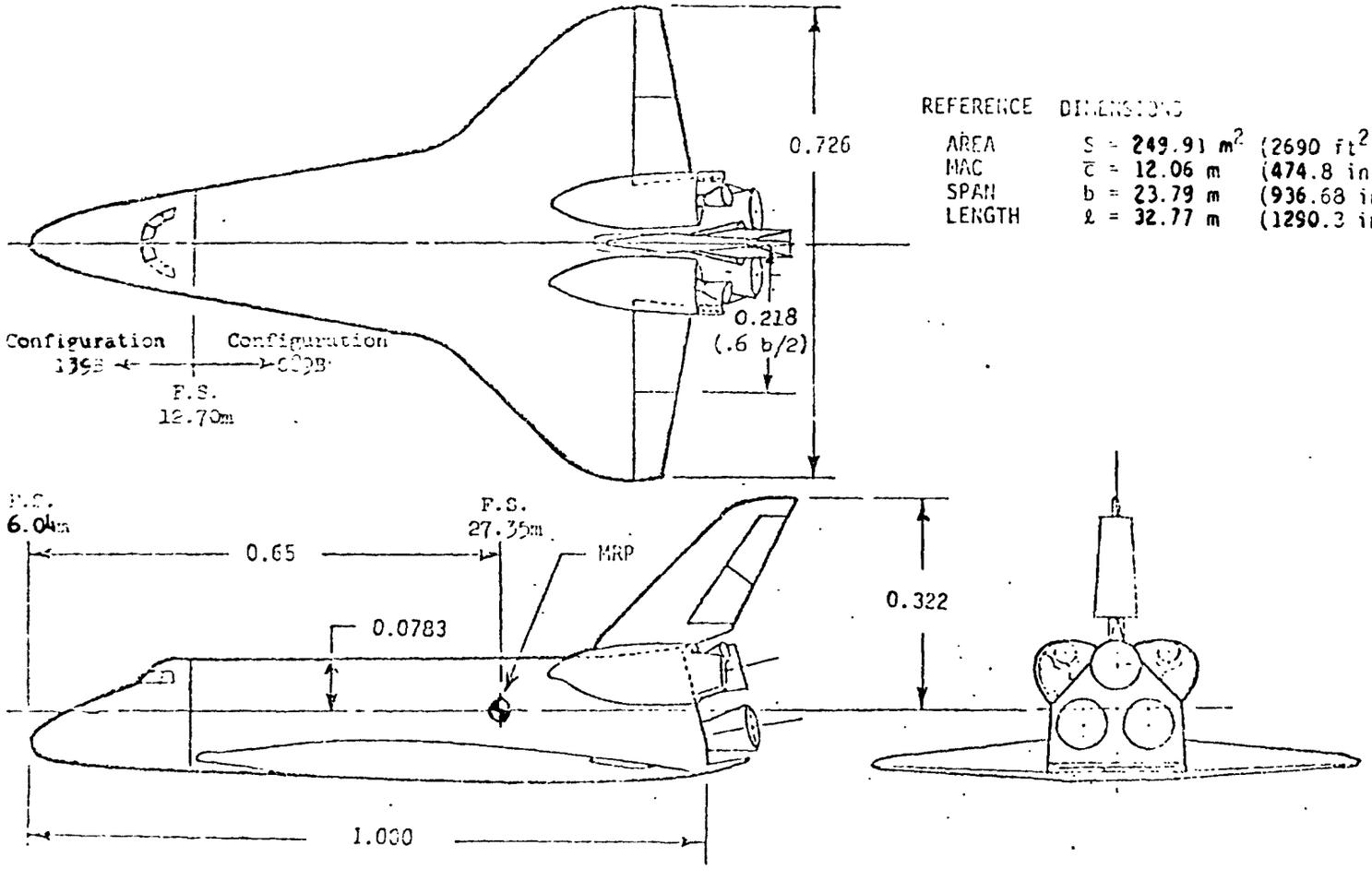


Figure 1. Axis Systems

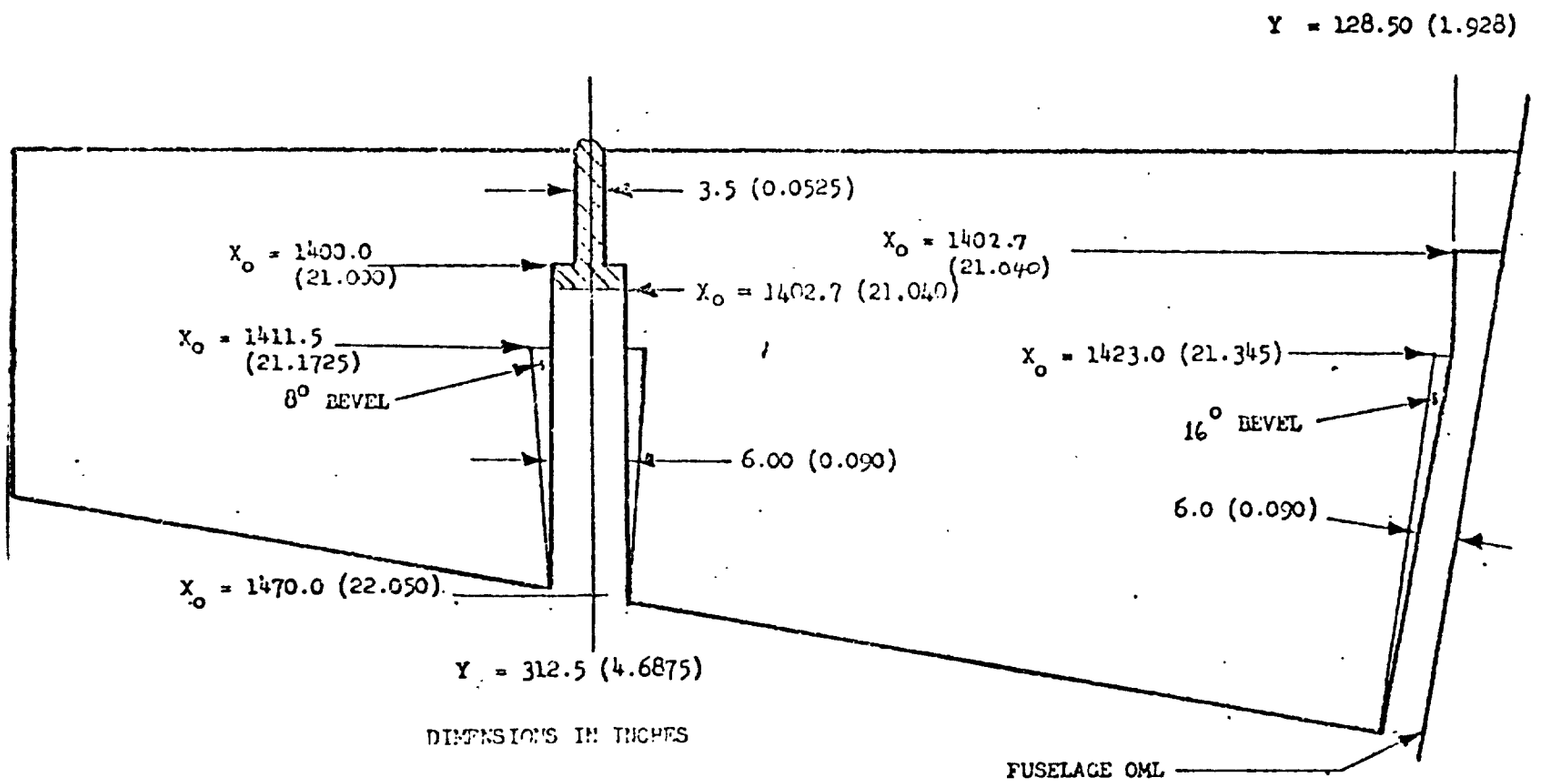


REFERENCE DIMENSIONS

AREA	S = 249.91 m^2	(2690 ft^2)
MAC	$\bar{c}$ = 12.06 m	(474.8 in.)
SPAN	b = 23.79 m	(936.68 in.)
LENGTH	ℓ = 32.77 m	(1290.3 in.)

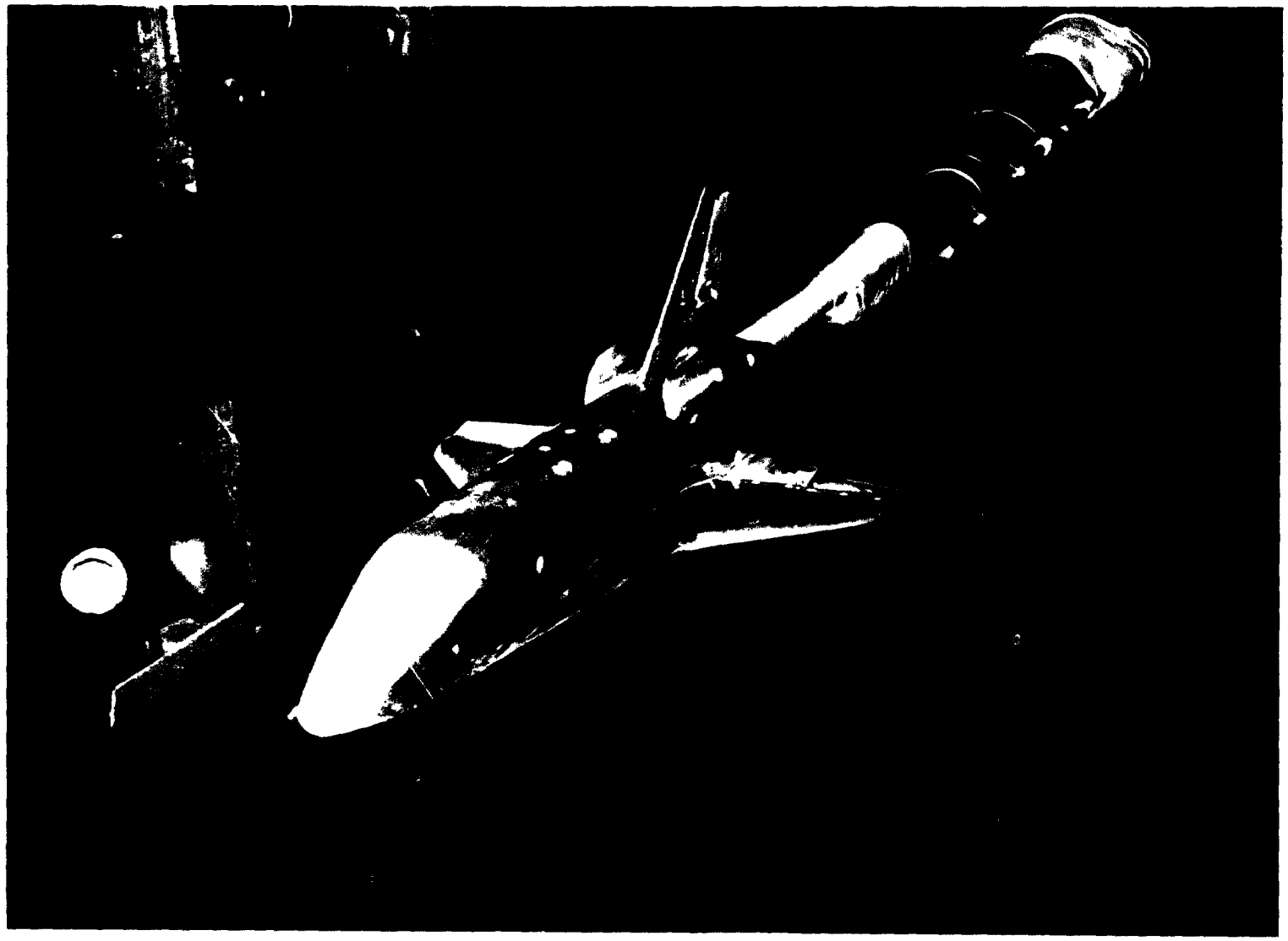
a. SSV Orbiter Configuration

Figure 2. - Model Sketches



b. Slotted Aileron - E_{43} (6 inch gap)

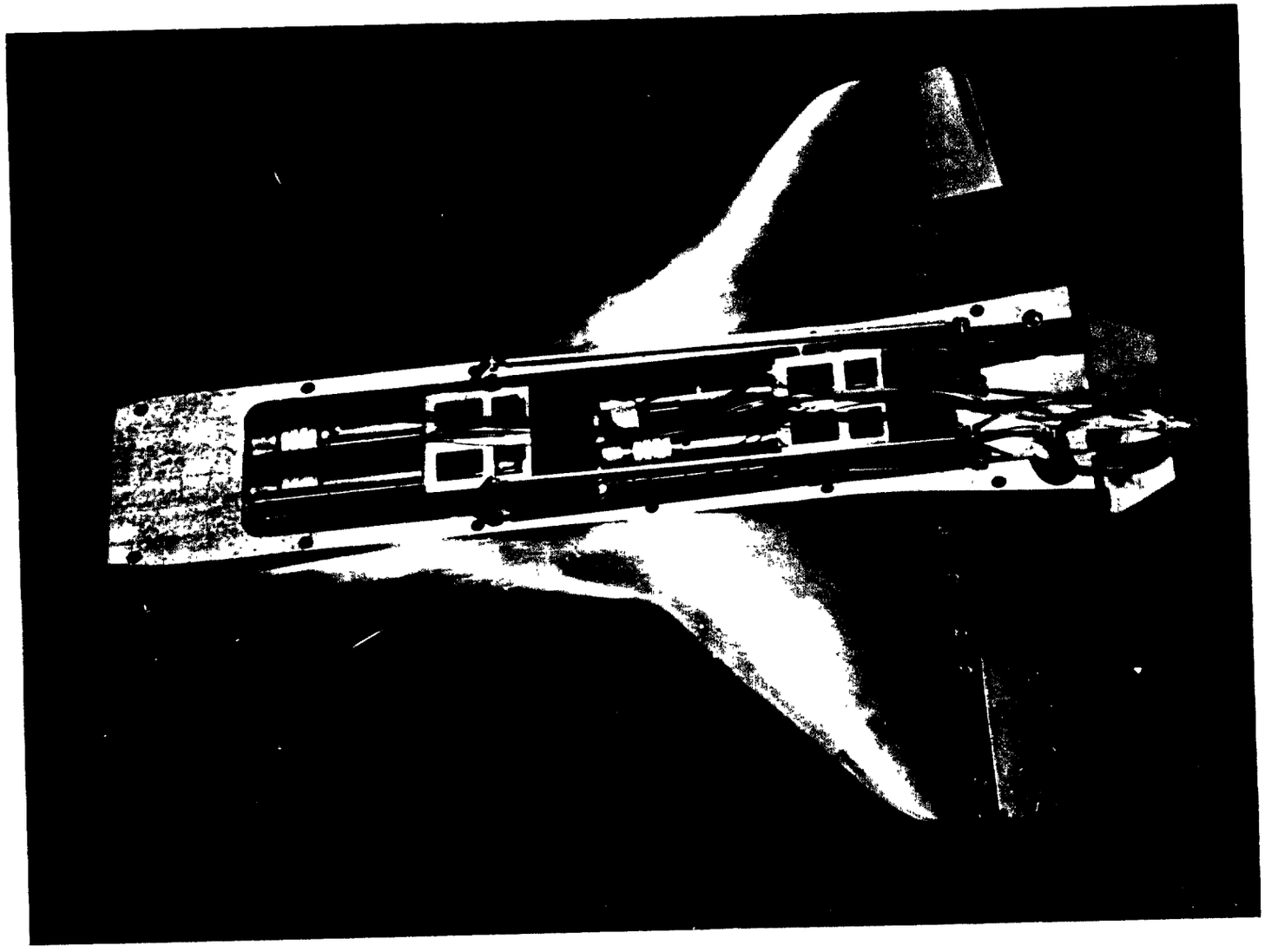
Figure 8. - Concluded



a. Orbiter Configuration, Front, 3/4 View

Figure 3. - Model Photographs

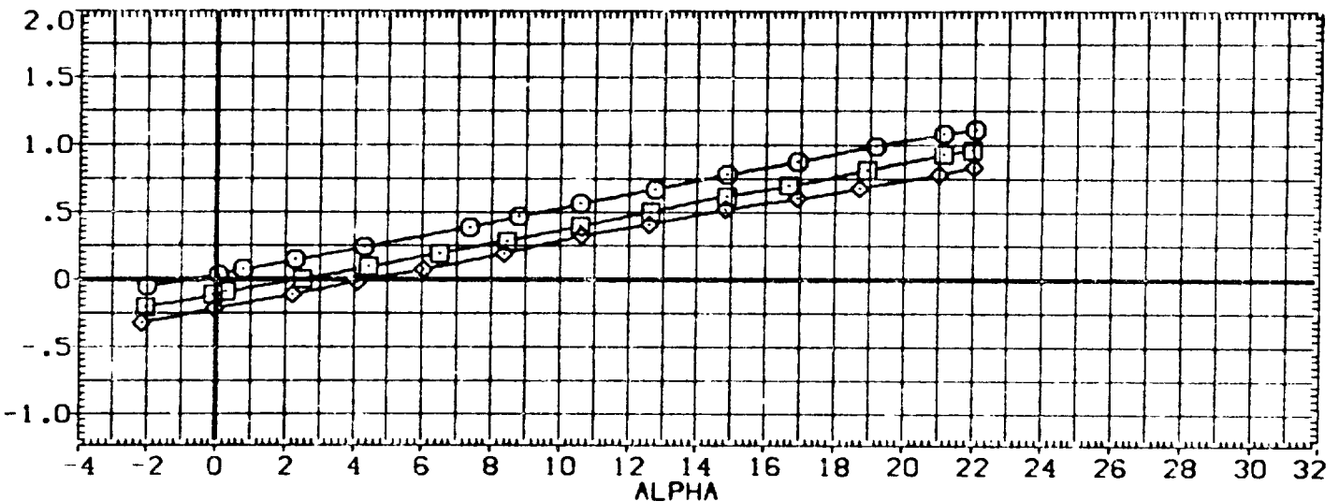
b. Orbiter Configuration, Rear, 3/4 View
Figure 3. - Continued

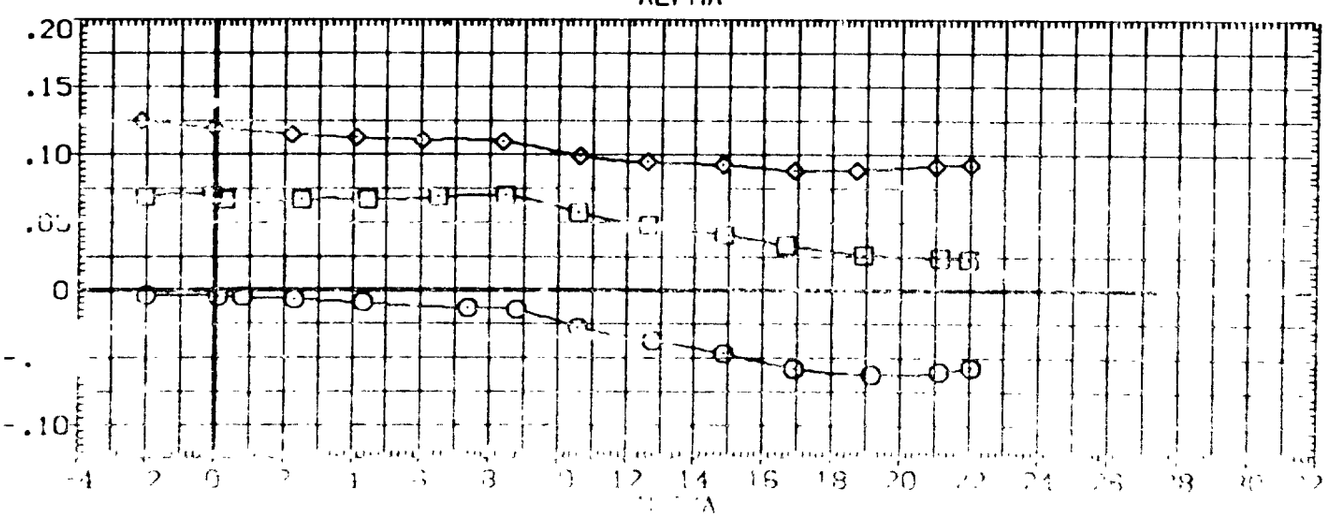


c. View of Elevon Drive Motors
Figure 3. - Concluded

DATA FIGURES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(AH1005)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(AH1006)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000





DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	□	LA-48 9-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(AH1005)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(AH1006)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	20.000	-20.000

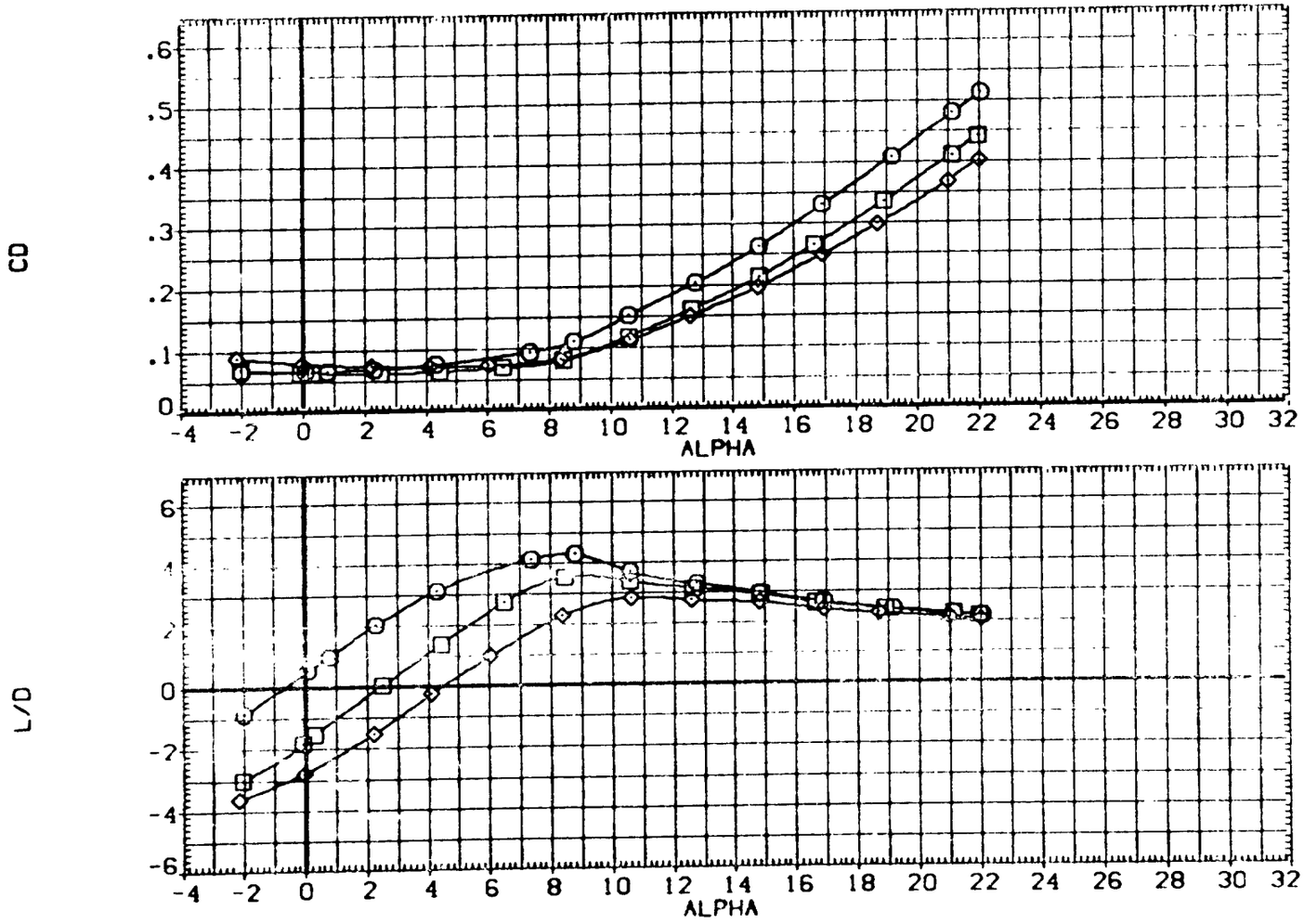
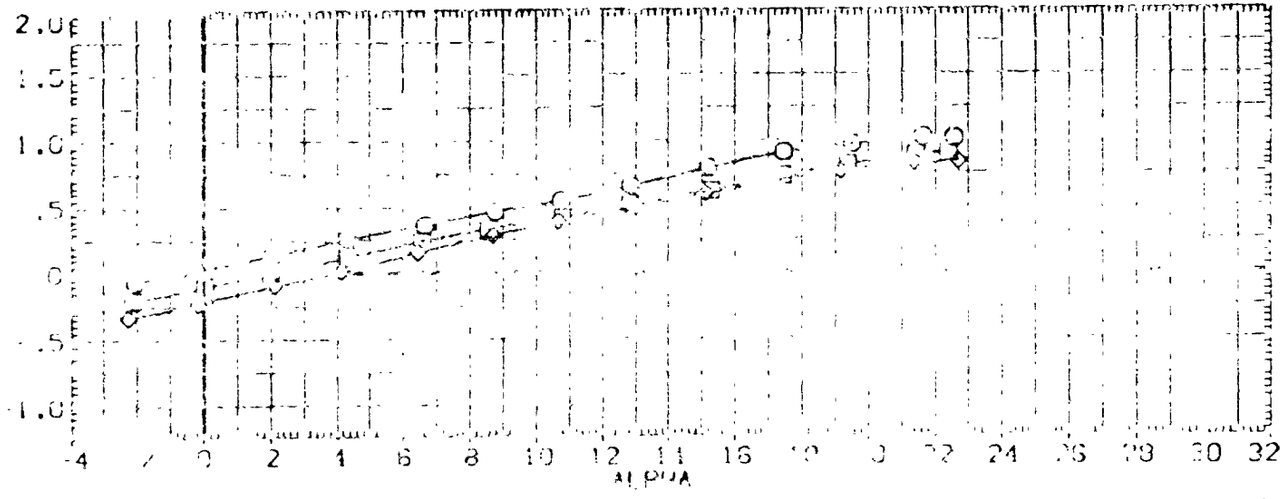
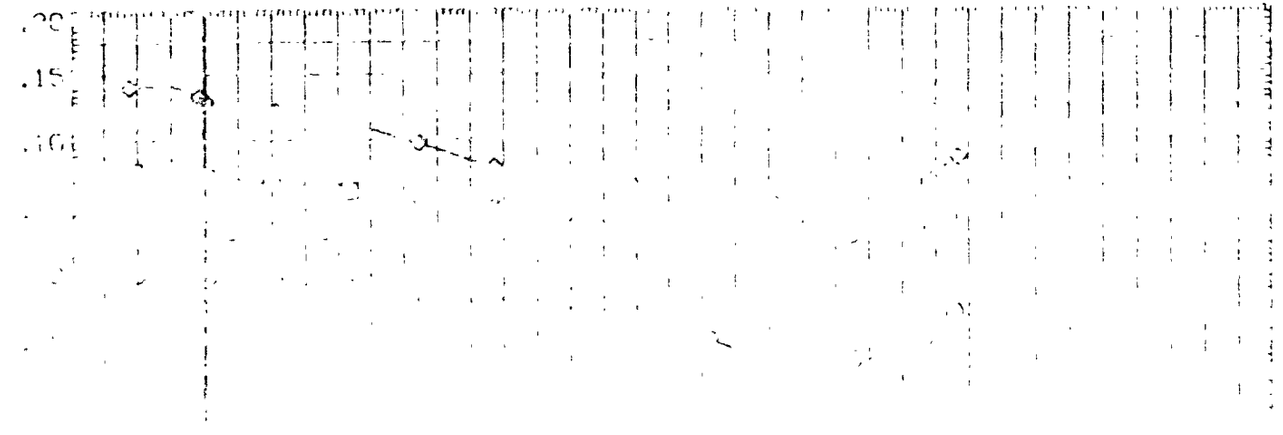


FIGURE 4. FULL SPAN ELEVON PITCH CHARACTERISTICS

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001) ○	LA-49 8-FT TPT 680 RI-0898/139 GRB SPLIT ELEVON	.000	.000	.000	.000
(AH1005) □	LA-49 8-FT TPT 680 RI-0898/139 GRB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(AH1006) ◇	LA-49 8-FT TPT 680 RI-0898/139 GRB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	LA-48 8-FT TPT 680 RI-0698/139 ORB SPLIT ELEVON	.00	.00	.00	.00
(AH1005)	LA-48 8-FT TPT 680 RI-0698/139 ORB SPLIT ELEVON	-10.00	-10.00	-10.00	-10.00
(AH1006)	LA-48 8-FT TPT 680 RI-0698/139 ORB SPLIT ELEVON	-20.00	-20.00	-20.00	-20.00

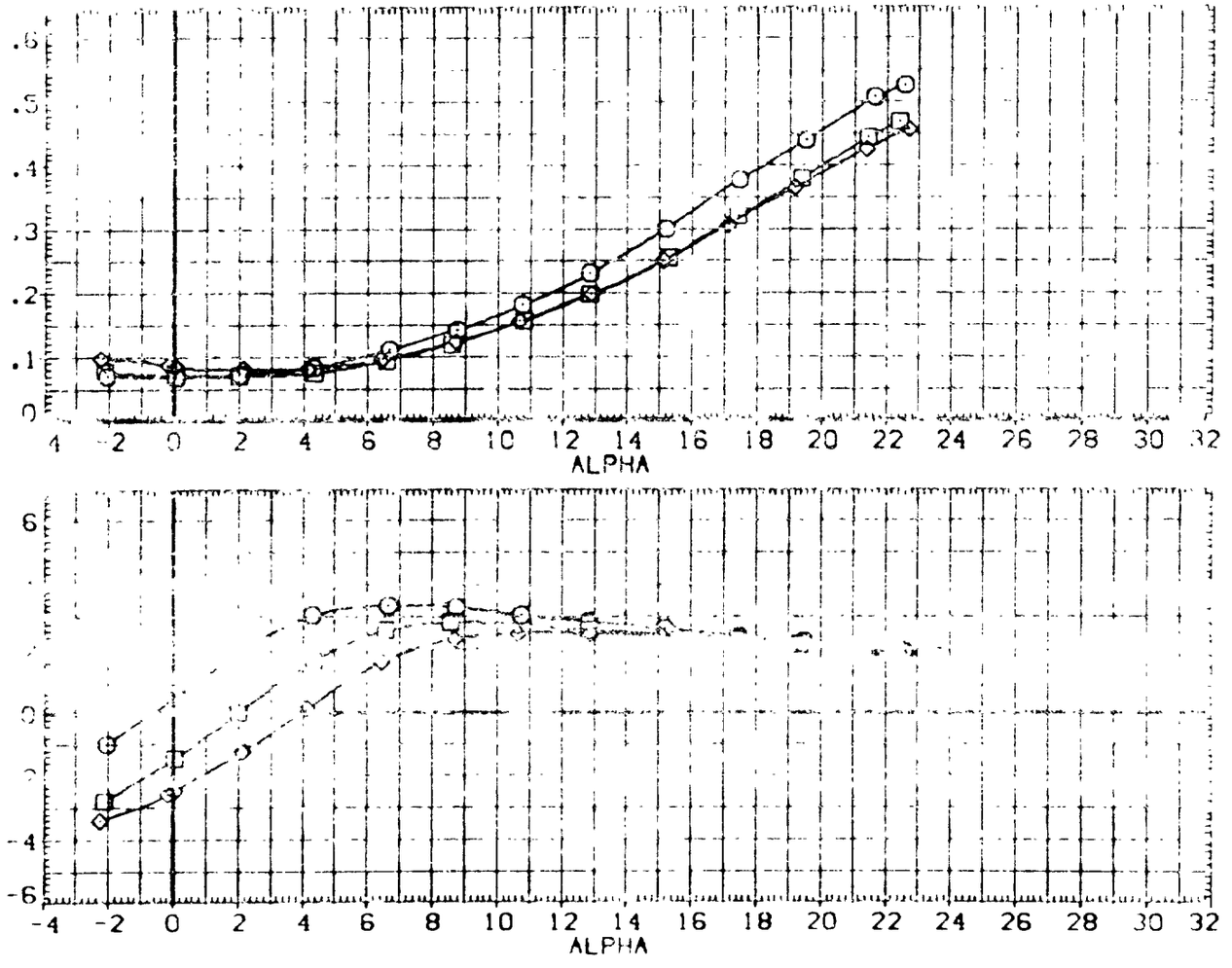
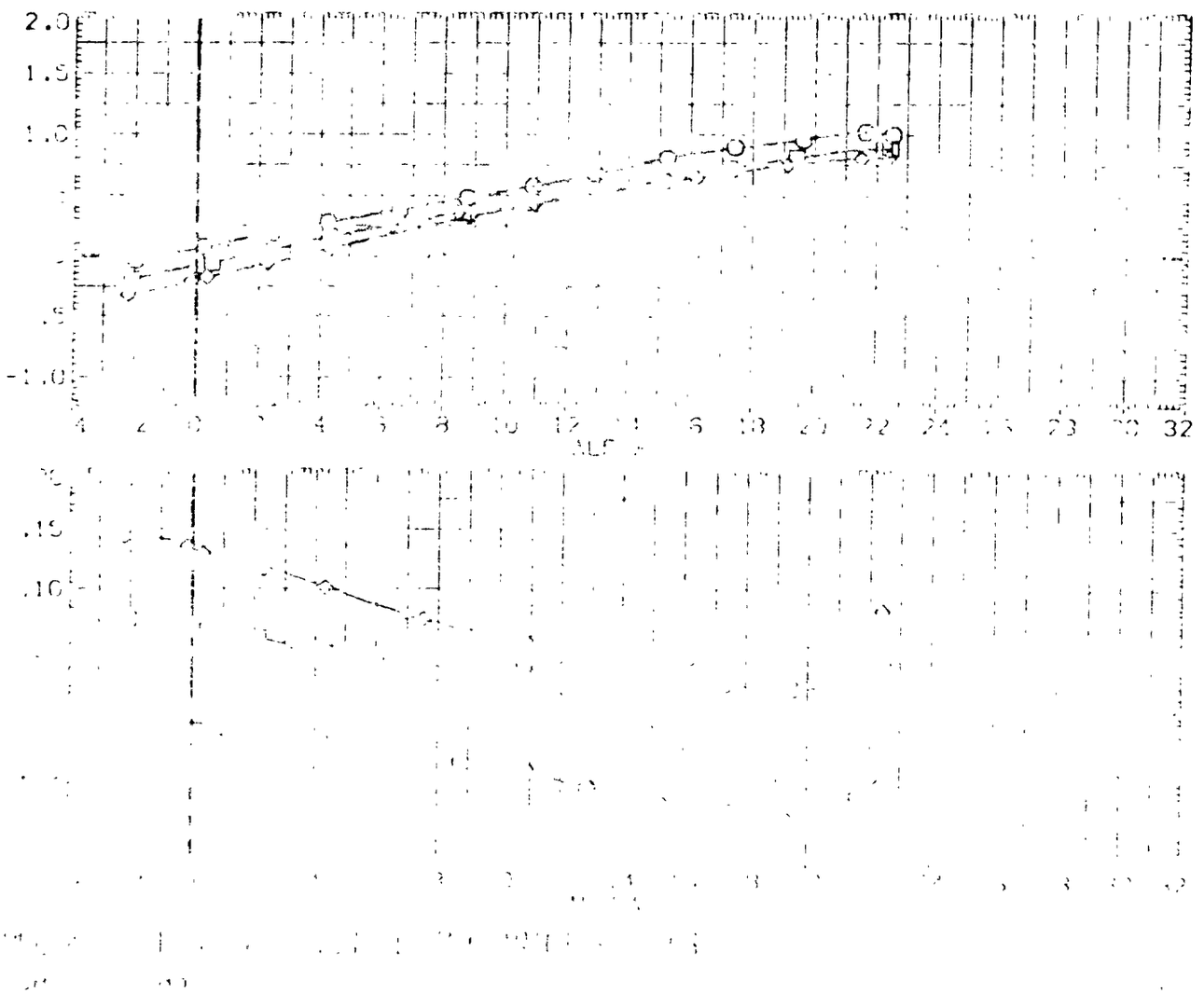


FIGURE 4. FULL SPAN ELEVON PITCH CHARACTERISTICS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	□	LA-48 8-FT TPT 680 RI-0898/139 098 SPLIT ELEVON	.000	.000	.000	.000
(AH1005)	◇	LA-48 8-FT TPT 680 RI-0898/139 098 SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(AH1006)	○	LA-48 8-FT TPT 680 RI-0898/139 098 SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000



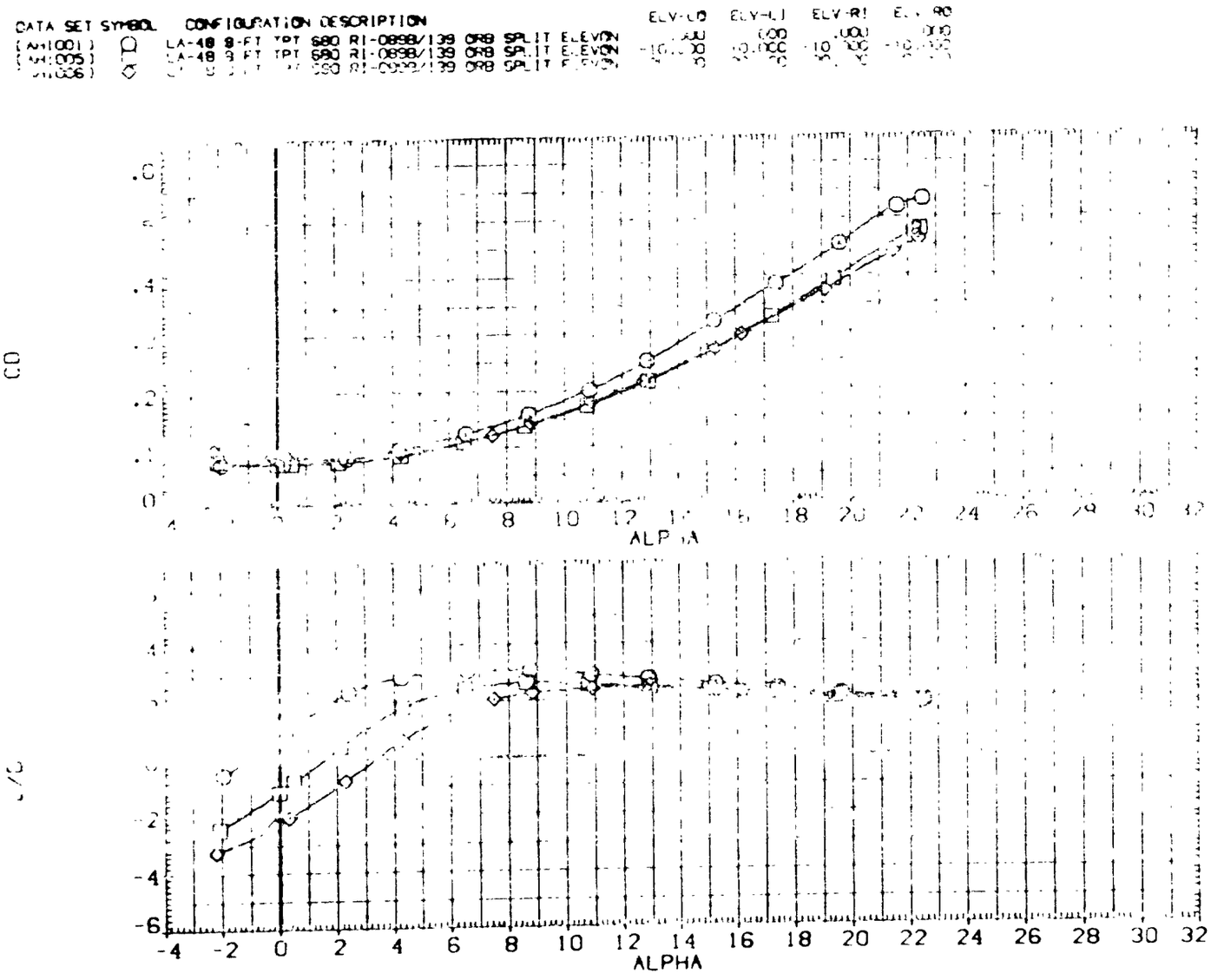
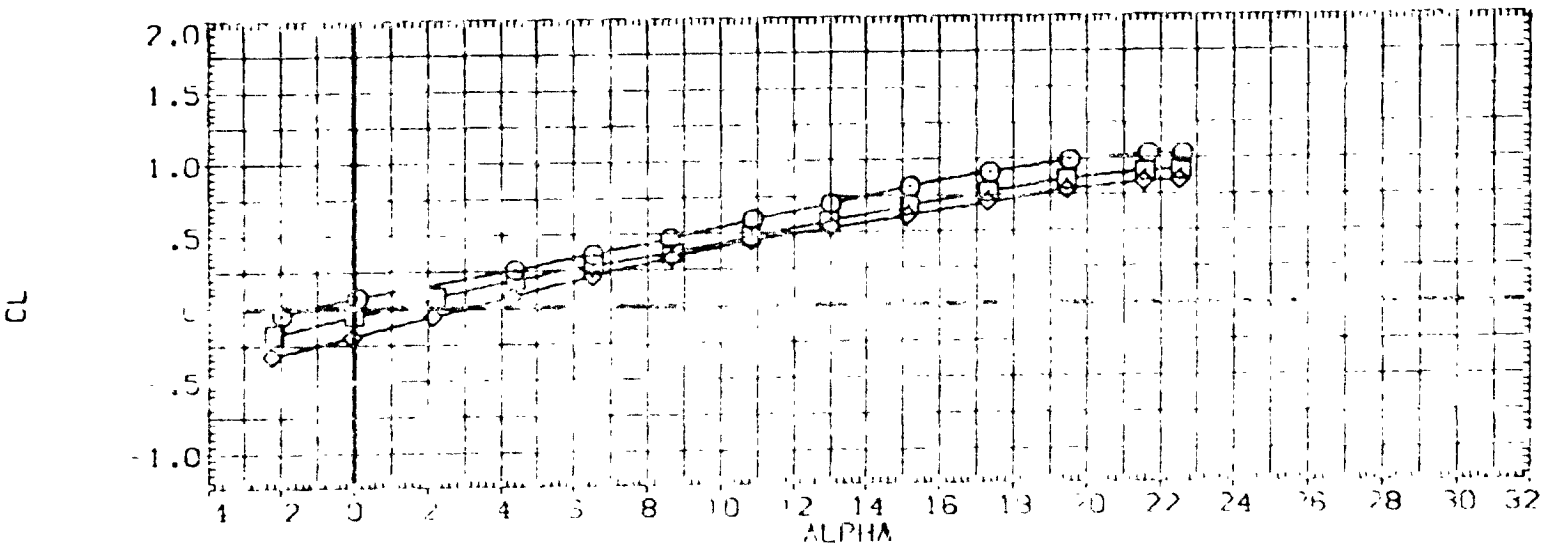
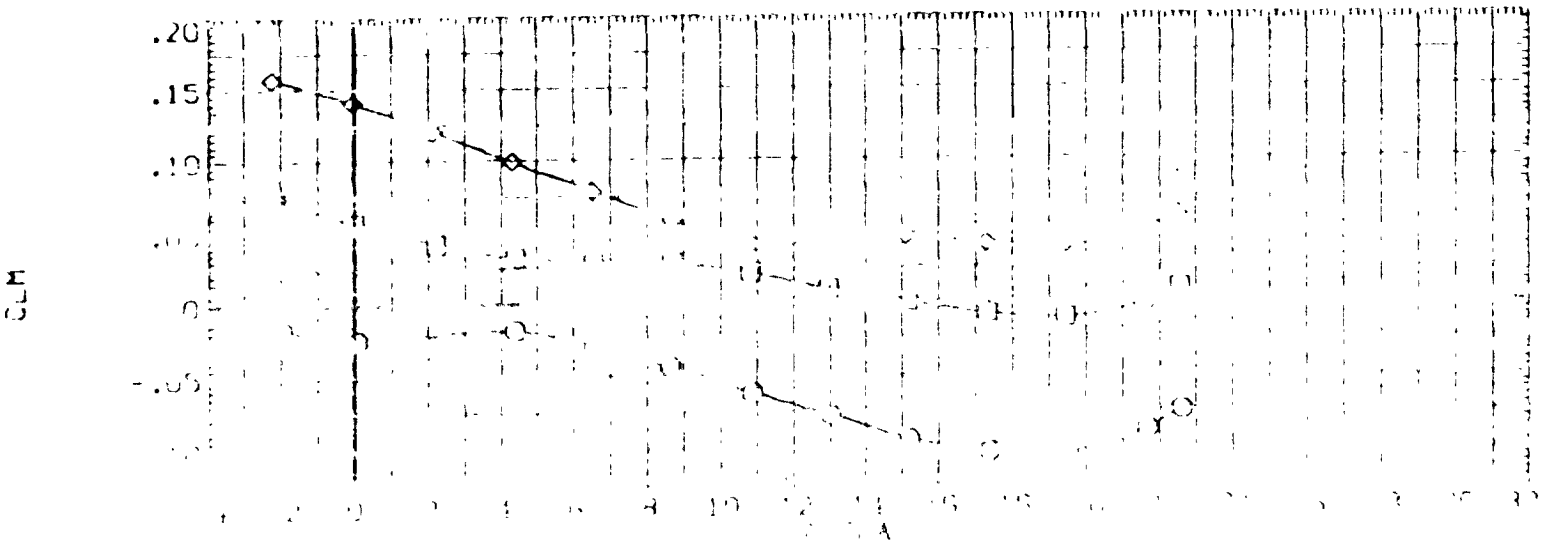


FIGURE 4. FULL SPAN ELEVON PITCH CHARACTERISTICS

(C)MACH = .85

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	◻	LA-18 8-FT TPT 680 RI-0898/139 093 SPLIT ELEVON	.000	.000	.000	.000
(AH1005)	◇	LA- 8-FT TPT 750 RI-0898/139 093 SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(AH1006)		LA- 8-FT TPT 680 RI-0898/139 093 SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000





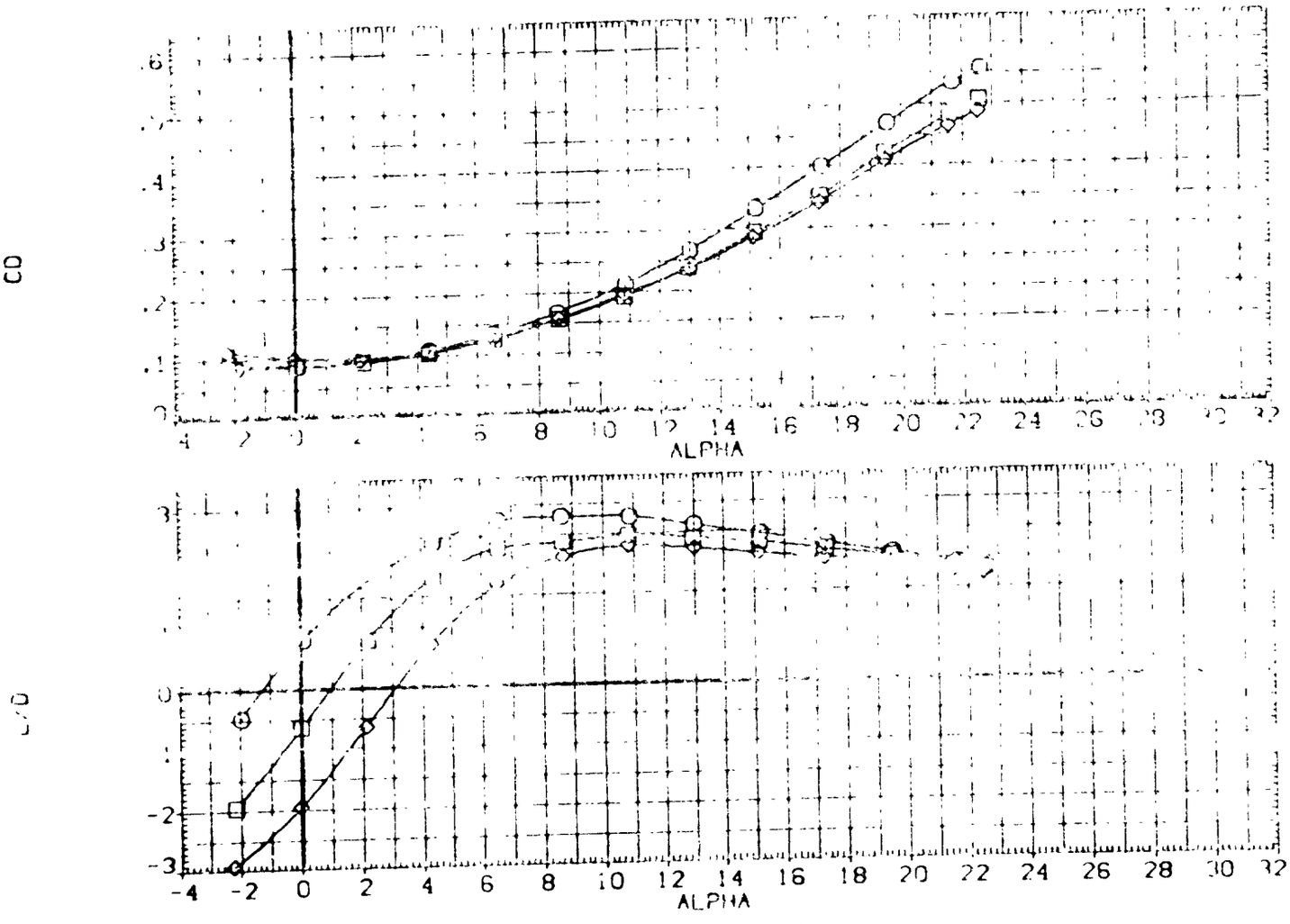


FIGURE 4. FULL SPAN ELEVON PITCH CHARACTERISTICS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	○	LA-49 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(AH1005)	□	LA-49 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(AH1006)	◇	LA-49 8-FT TPT 300 RI-0890/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000

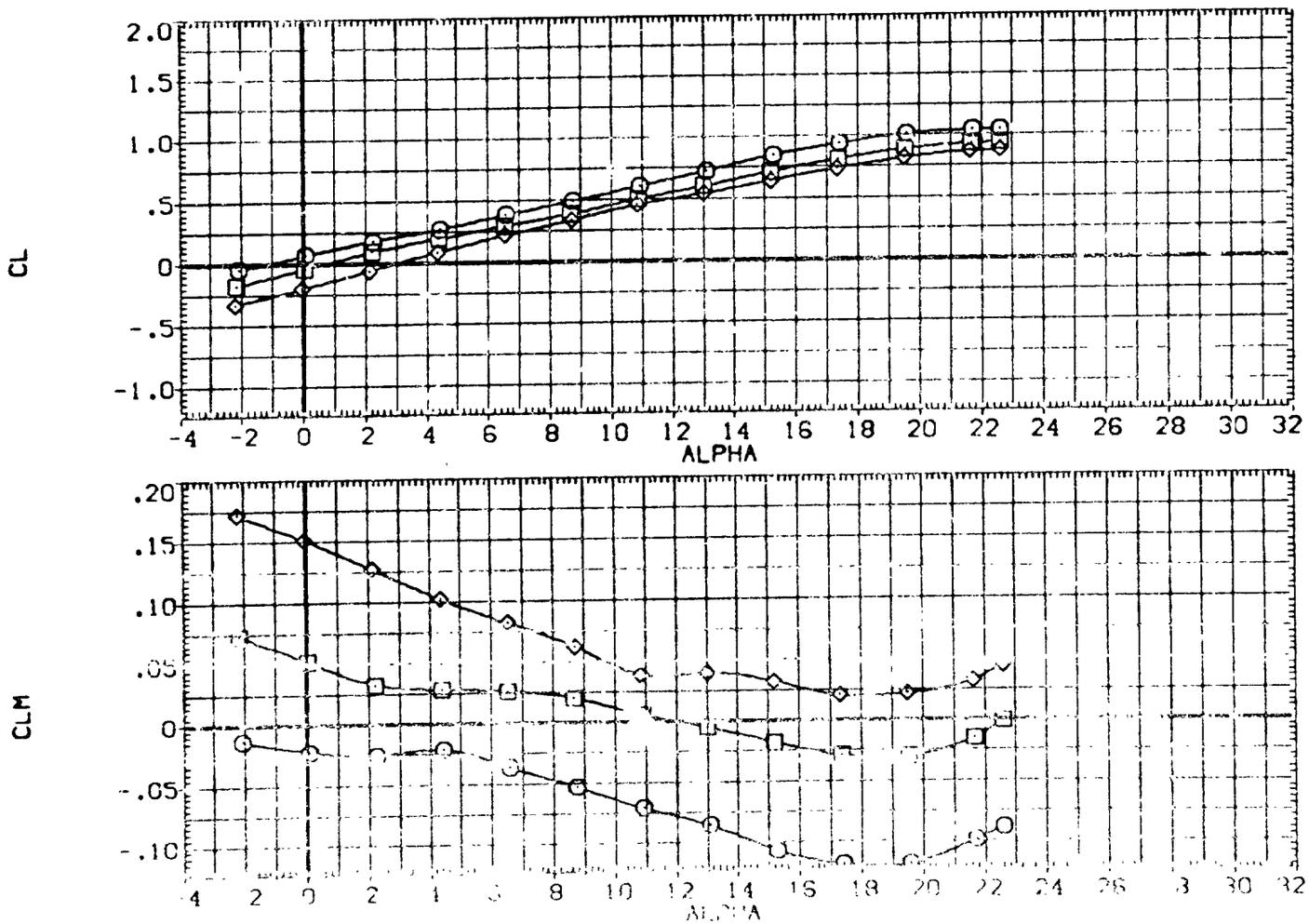


FIGURE 3. [illegible] CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
([illegible])	□	LA-48 8-FT TPT [illegible] RI-0898/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(AH1005)	□	LA-48 8-FT TPT [illegible] RI-0898/139 ORB SPLIT ELEVON	10.000	[illegible]	[illegible]	[illegible]
(AH1006)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000

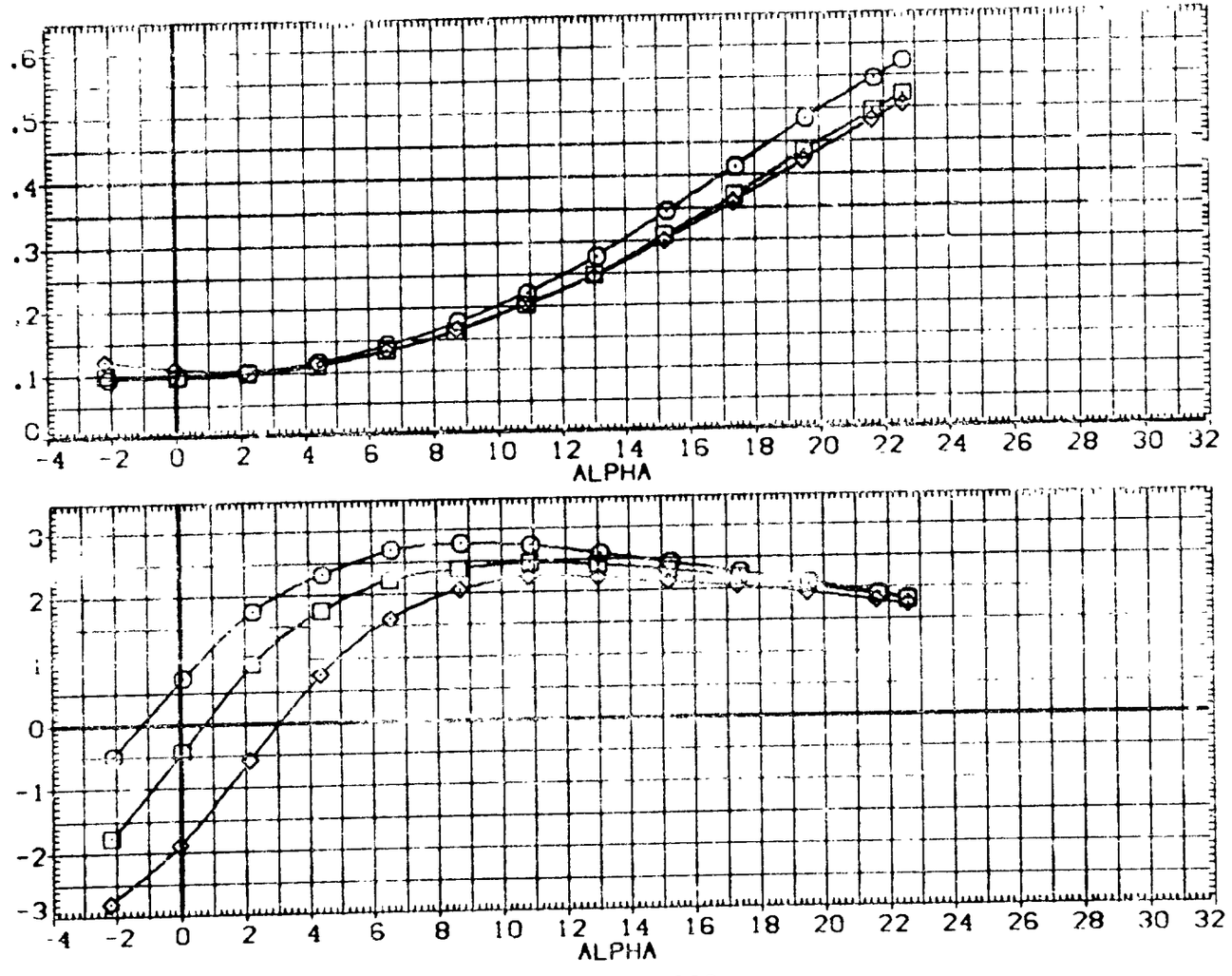
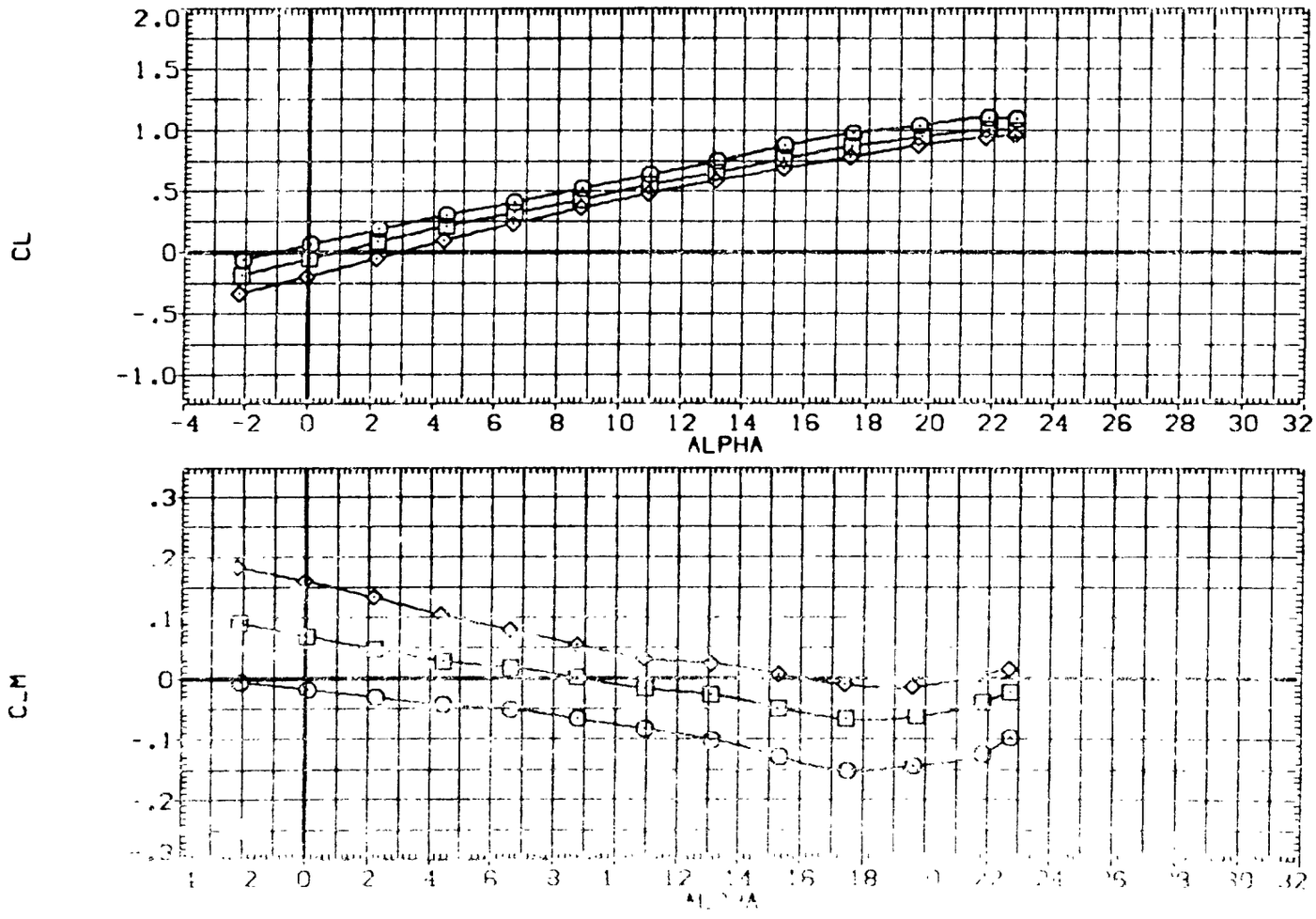


FIGURE 4. FULL SPAN ELEVON PITCH CHARACTERISTICS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(AH1005)	□	LA-13 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(AH1006)	◇	LA-49 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	○	LA-48 8-FT TPT 680 RI-0698/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(AH1005)	□	LA-48 8-FT TPT 680 RI-0698/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(AH1006)	◇	LA-48 8-FT TPT 680 RI-0698/139 ORB SPLIT ELEVON	20.000	-20.000	20.000	20.000

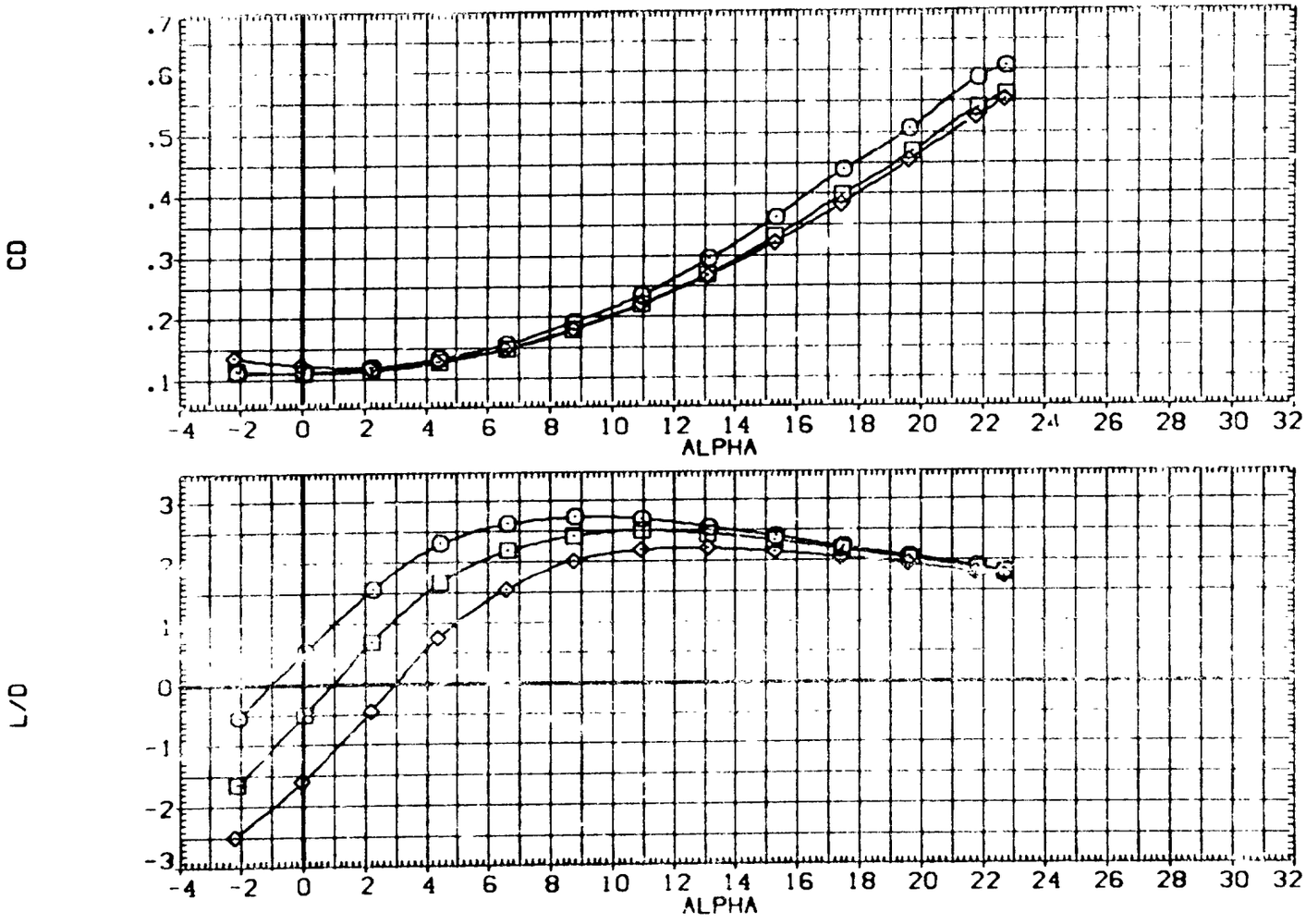
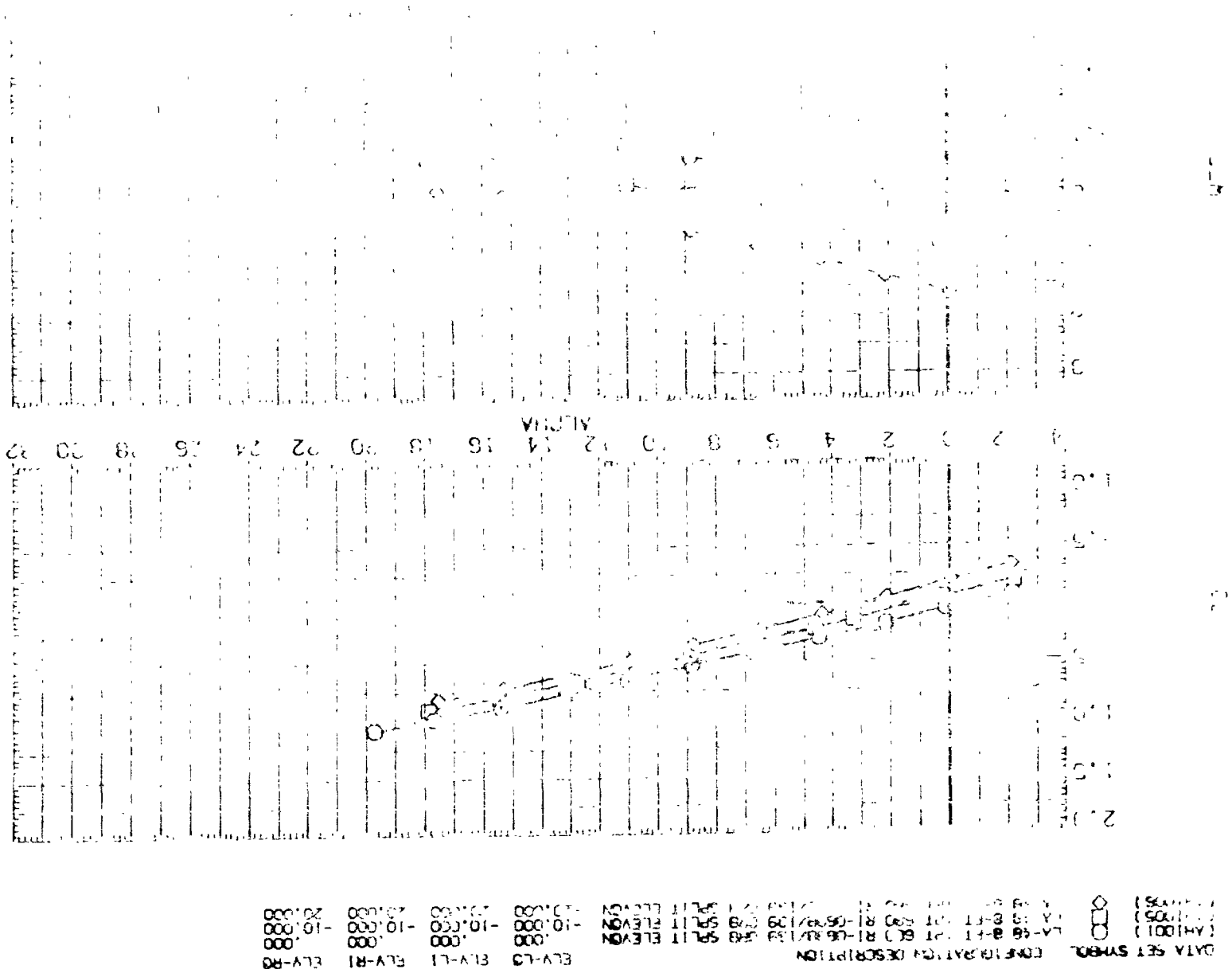


FIGURE 4. FULL SPAN ELEVON PITCH CHARACTERISTICS

(F)MACH = .95


ALGEBRA
DATA SET SYMBOL
ELEV-LO
ELEV-LI
ELEV-RI
ELEV-RO

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AN(001) LA-48 SHIPT 680 RI 0898/139 038 SPLIT ELEVON

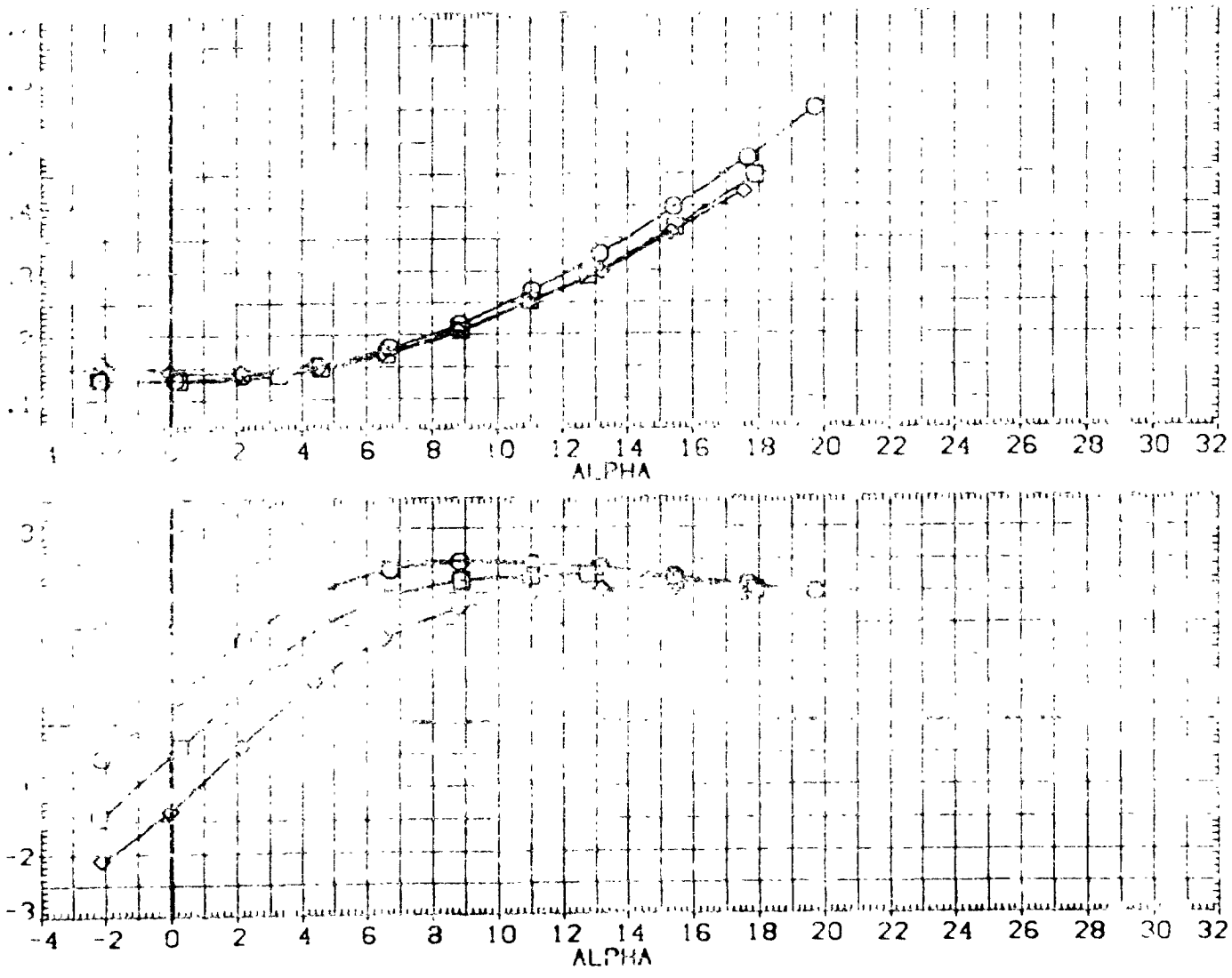


FIGURE 4. FULL SPAN ELEVON PITCH CHARACTERISTICS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	□	CA-49 B-1 [illegible] RI-2038/139 .338 SPLIT ELEVON	.000	.000	.000	.000
(AH1005)	◇	CA-49 B-1 [illegible] RI-2038/139 .338 SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
[illegible]		[illegible] SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000

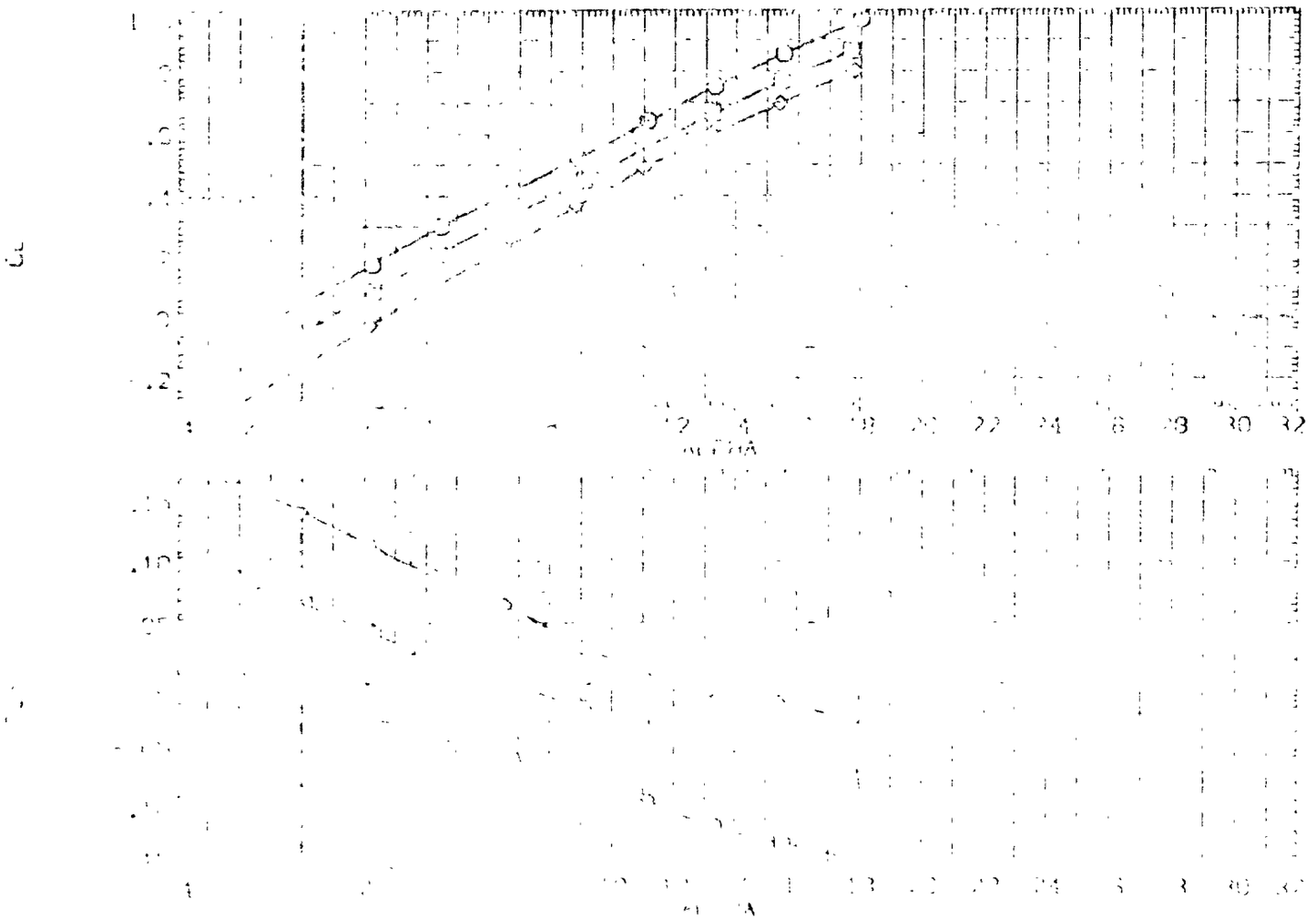


FIGURE 4. [illegible] AXIAL [illegible]

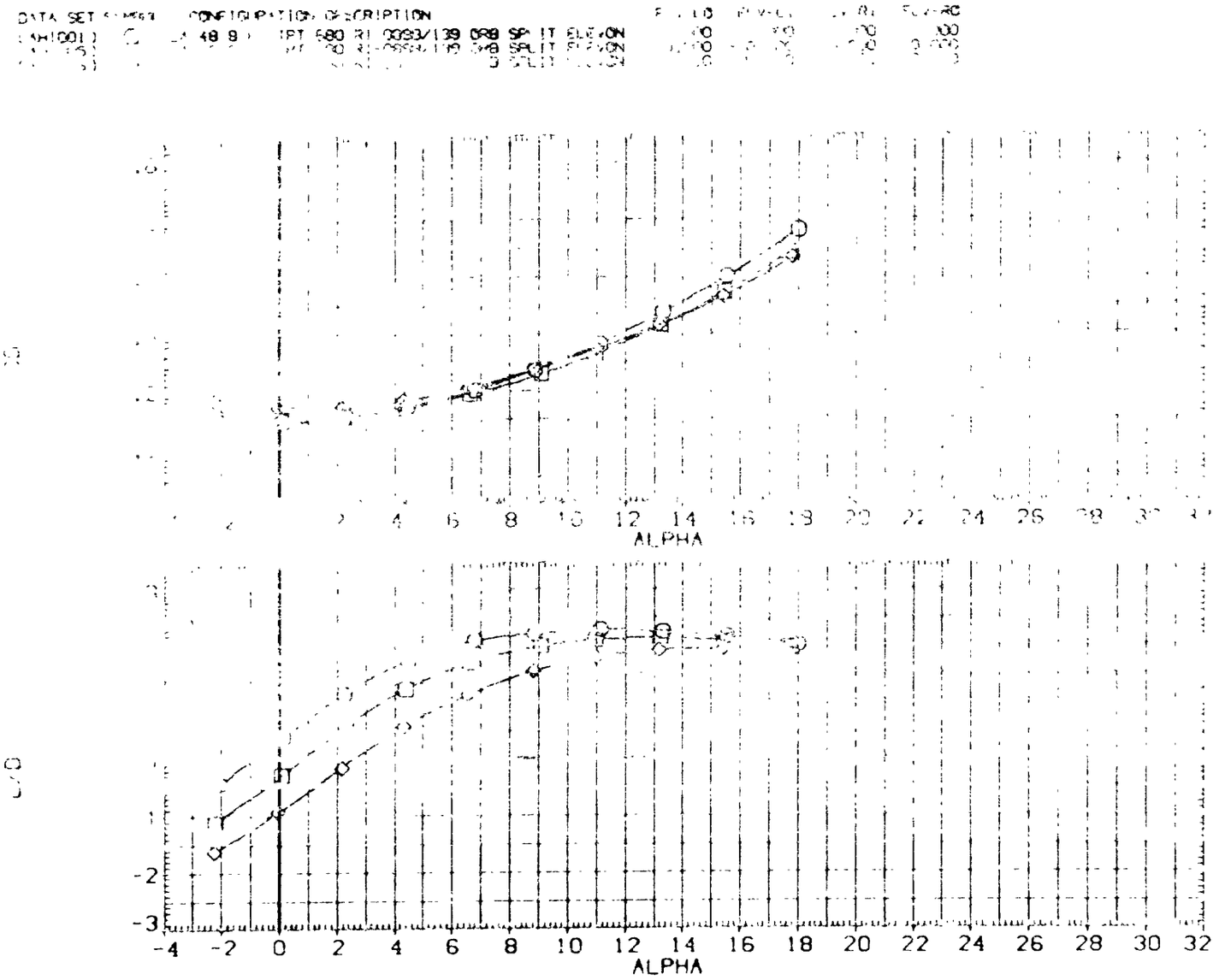


FIGURE 4. FULL SPAN ELEVON PITCH CHARACTERISTICS

(H)MACH = 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	○	LA-48 8 FT [illegible] SPLIT ELEVON	.000	.000	.000	.000
(AH1002)	□	[illegible] SPLIT ELEVON	.000	-10.000	-10.000	.000
(AH1003)	◇	[illegible] SPLIT ELEVON	.000	-20.000	-20.000	.000
(AH1004)	△	LA-48 8 FT [illegible] SPLIT ELEVON	.000	-30.000	-30.000	.000

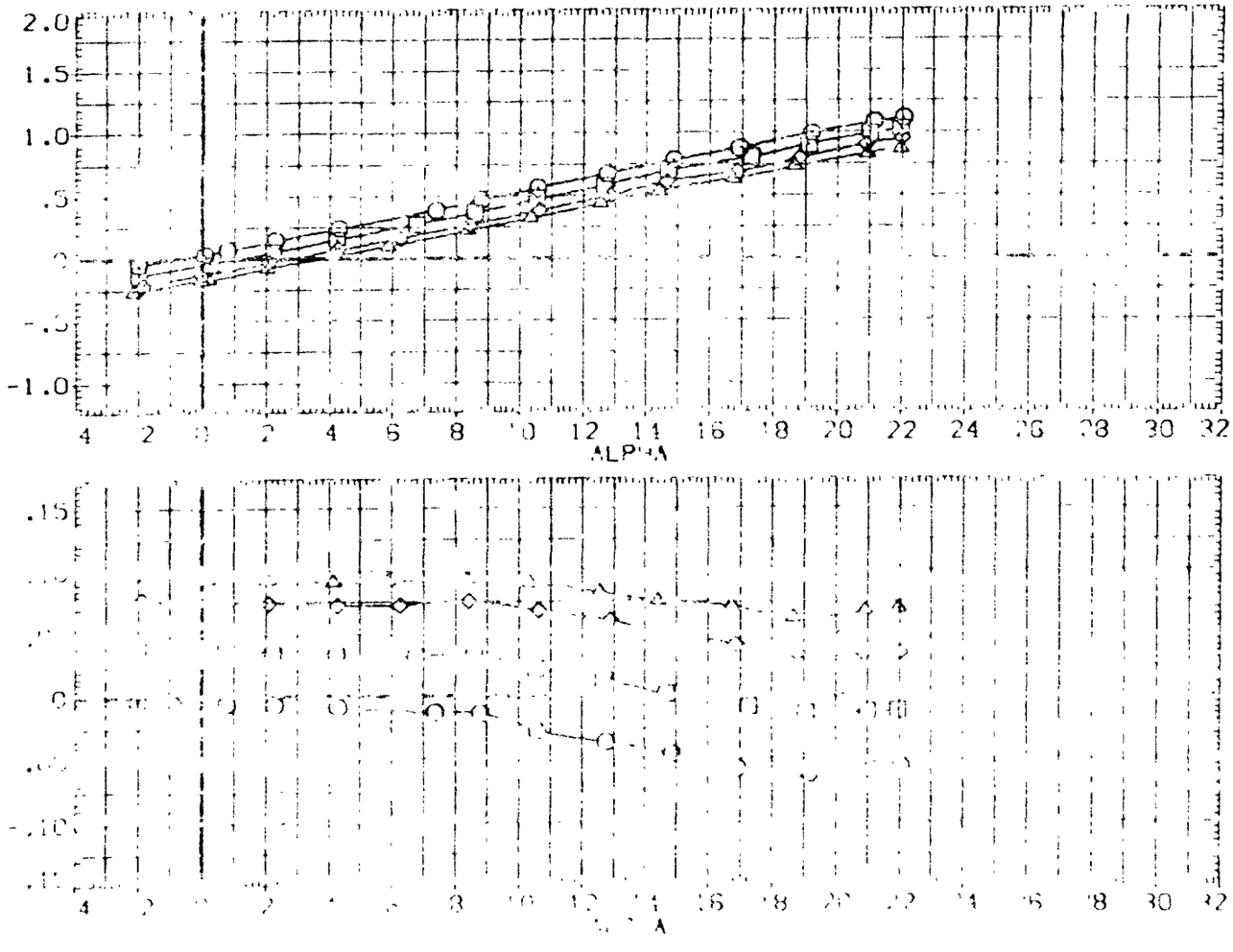


FIGURE [illegible] LEVEL PITCH [illegible] CHARACTERISTICS

(AH1001) [illegible]

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	0.00	0.00	0.00	0.00
(AH1002)	□	LA-48 8-FT TPT 580 RI-0898/139 ORB SPLIT ELEVON	0.00	-10.00	10.00	0.00
(AH1003)	◇	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
(AH1004)	△	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

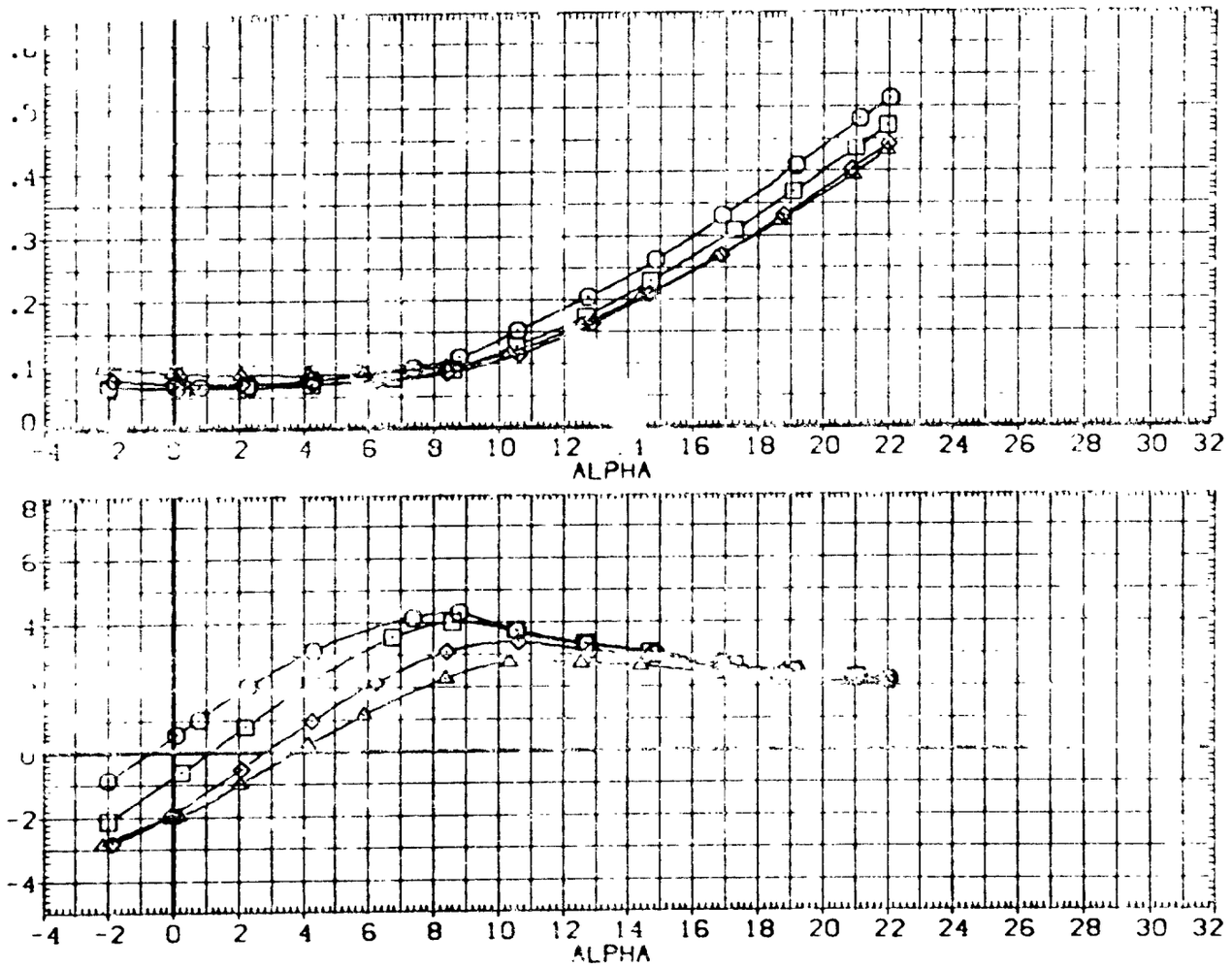


FIGURE 5. INBOARD ELEVON PITCH CHARACTERISTICS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(AH1002)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	.000
(AH1003)	⋈	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000
(AH1004)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-30.000	-30.000	.000

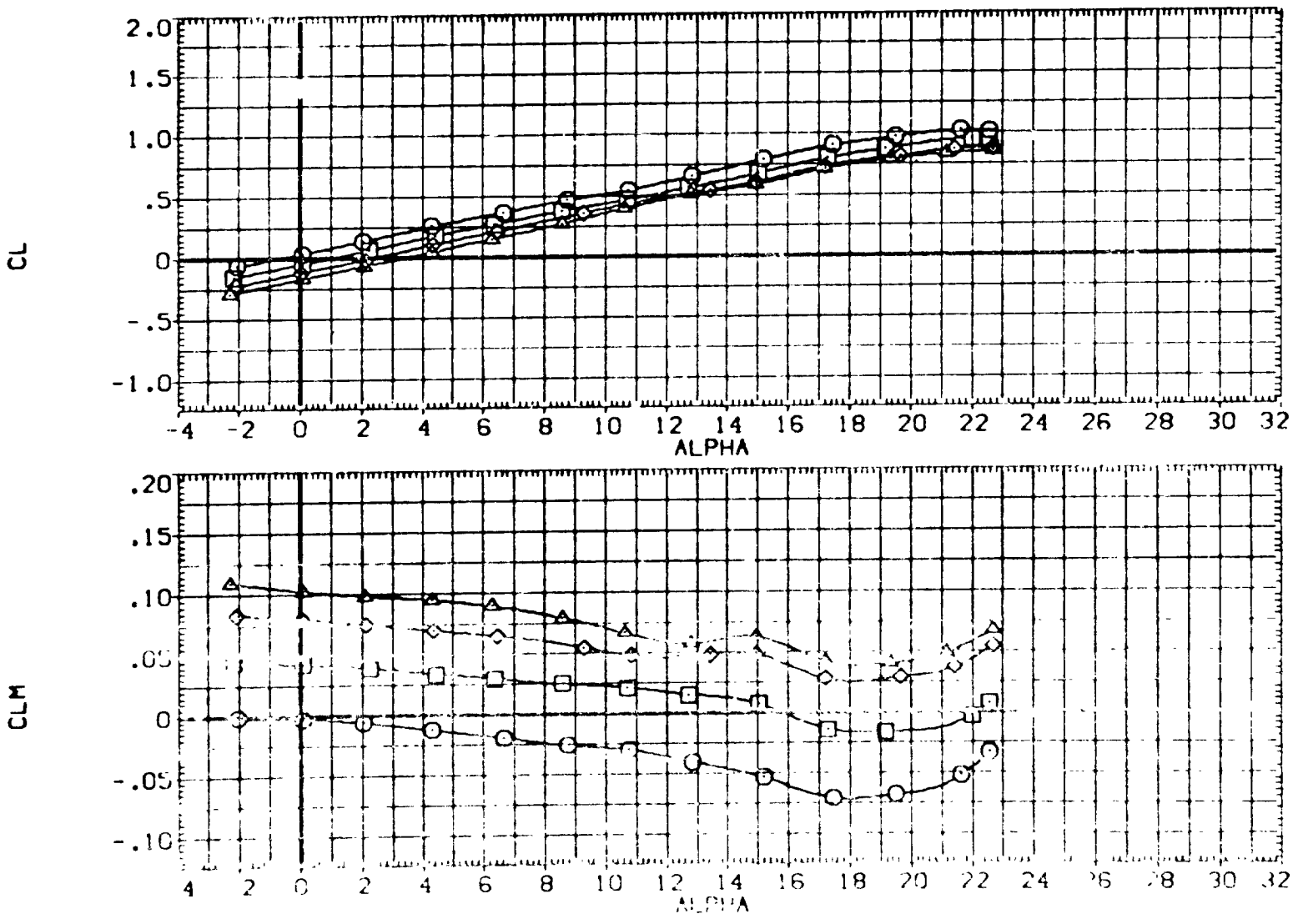


FIGURE 5. [illegible] PITCH CHARACTERISTICS

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	□	LA-48 8 FT TPT 680 RI-0898/139 088 SPLIT ELEVON	.000	-30.000	-30.000	.000
(AH1002)	○	LA-48 8 FT TPT 680 RI-0898/139 088 SPLIT ELEVON	.000	-20.000	-20.000	.000
(AH1003)	◇	LA-48 8 FT TPT 680 RI-0898/139 088 SPLIT ELEVON	.000	-30.000	-30.000	.000
(AH1004)	△	LA-48 8 FT TPT 680 RI-0898/139 088 SPLIT ELEVON	.000	-30.000	-30.000	.000

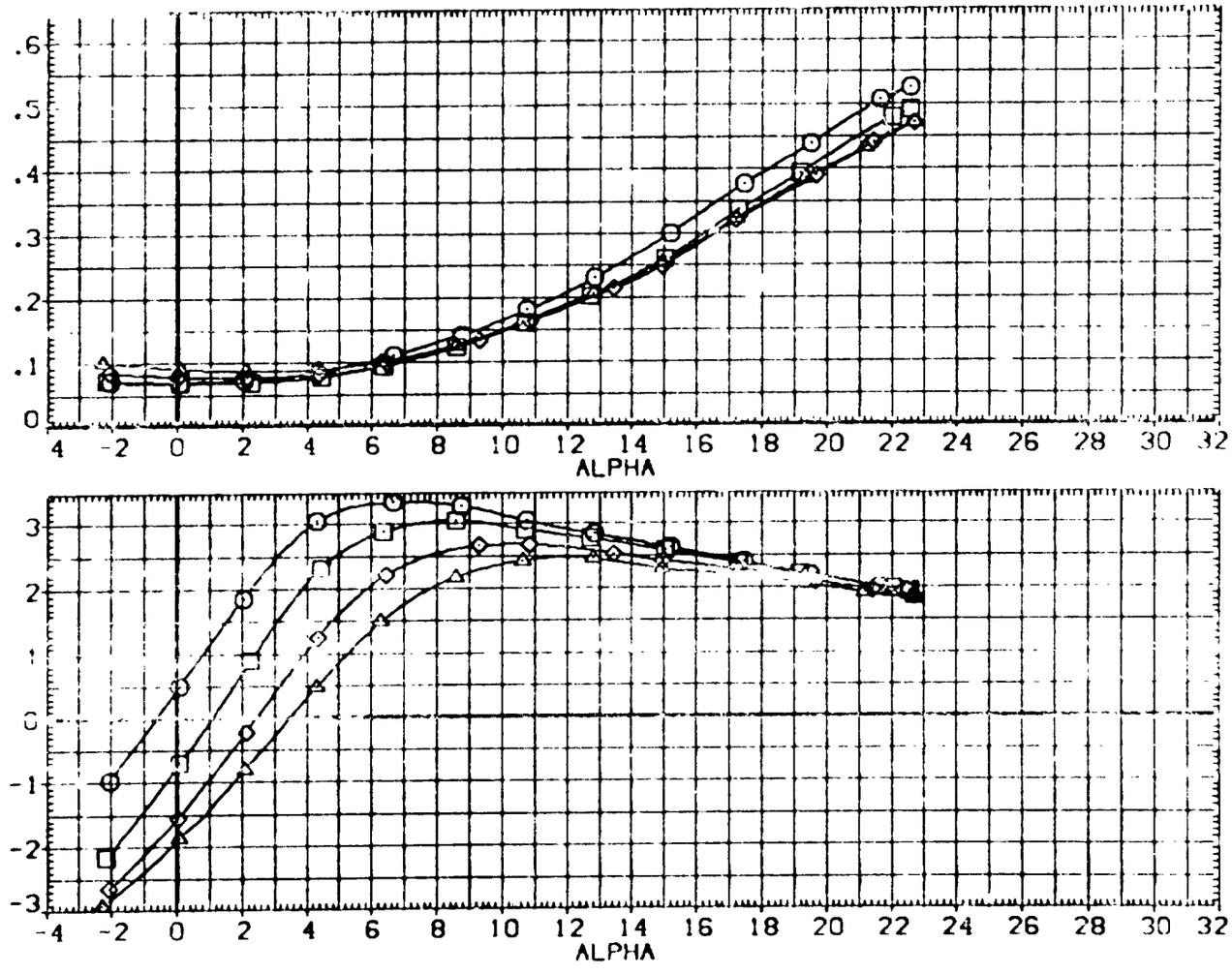


FIGURE 5. INBOARD ELEVON PITCH CHARACTERISTICS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(AH1002)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	.000
(AH1003)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000
(AH1004)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-30.000	-30.000	.000

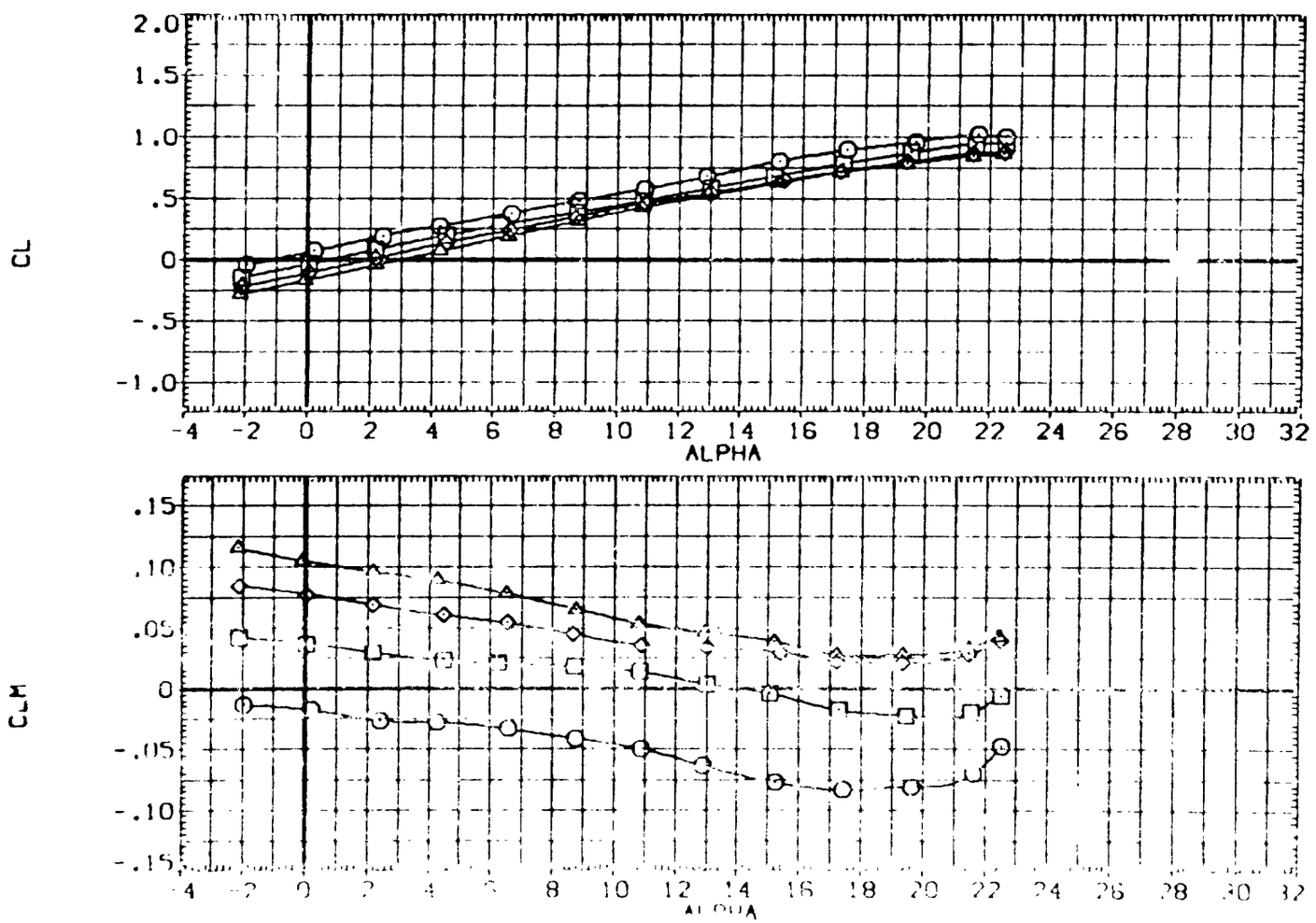


FIGURE 5. [illegible]

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	□	LA-48 8-FT TPI 680 RI-0898/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(AH1002)	◇	LA-48 8-FT TPI 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	.000
(AH1003)	⊠	LA-48 8-FT TPI 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000
(AH1004)	△	LA-48 8-FT TPI 680 RI-0898/139 ORB SPLIT ELEVON	.000	-30.000	-30.000	.000

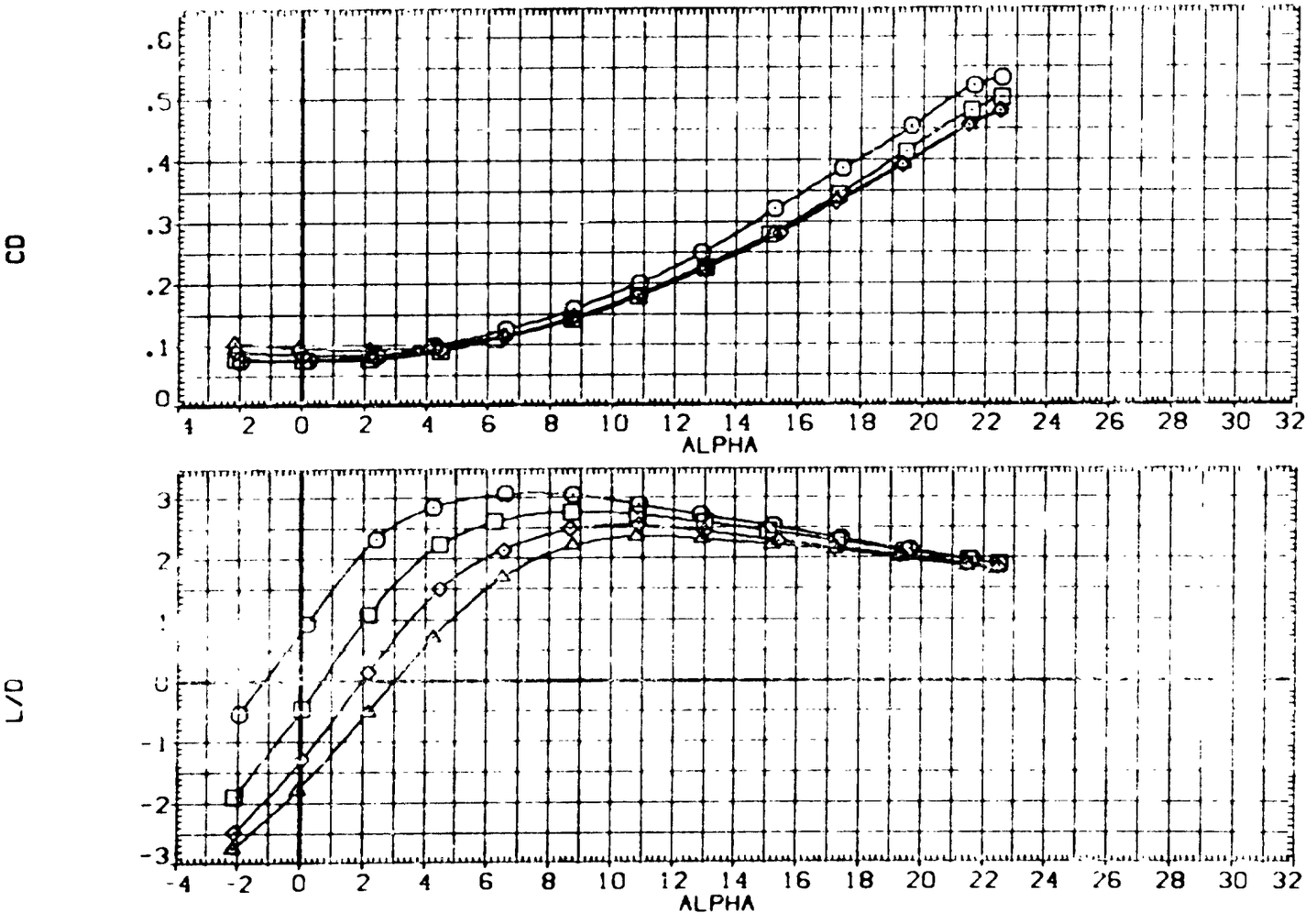
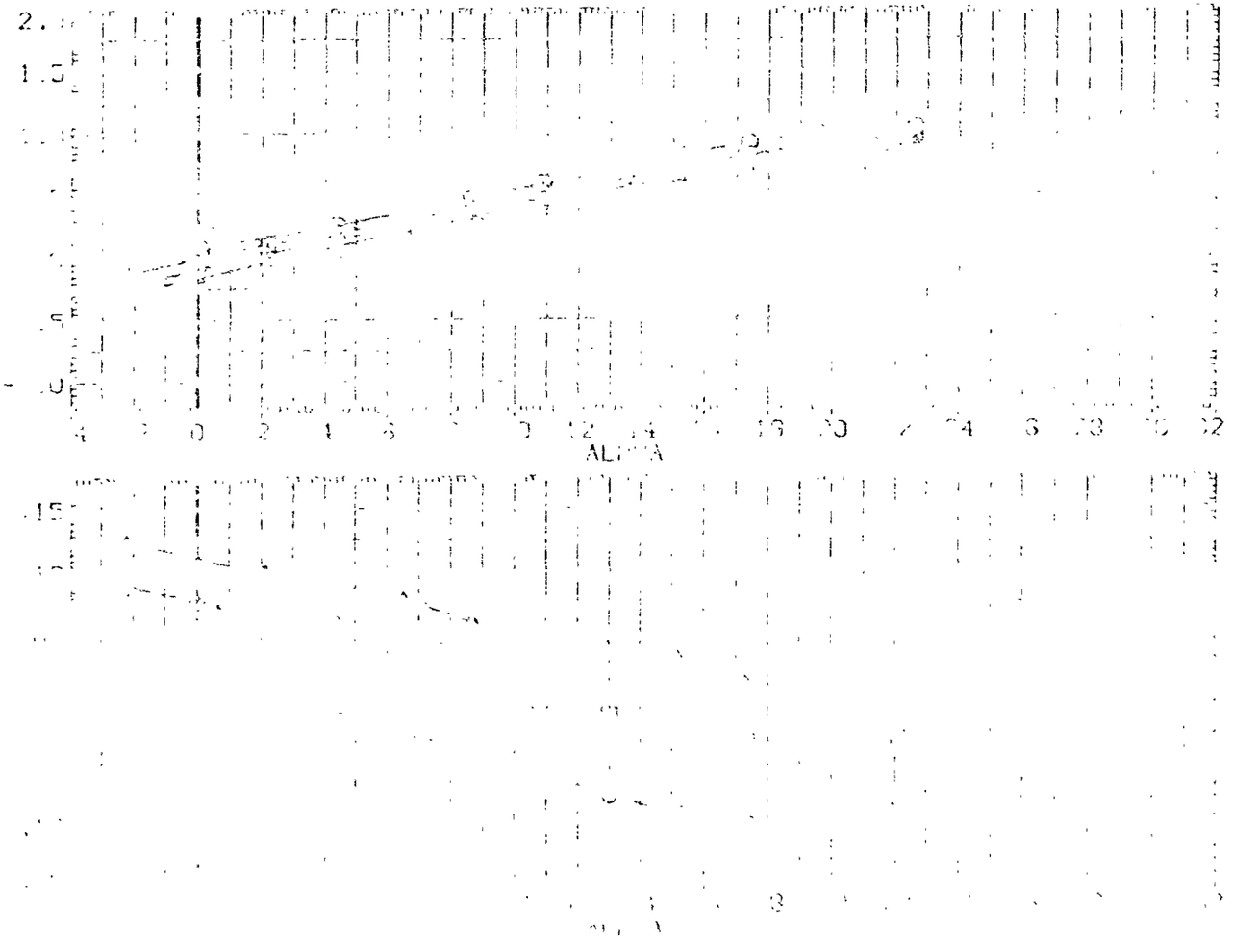


FIGURE 5. INBOARD ELEVON PITCH CHARACTERISTICS

(C)MACH = .85

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	□	LA-48 B-ET IPT SPC RI-[illegible] SPLIT ELEVON	.000	.000	.000	.000
(AH1002)	○	LA-[illegible] B-ET IPT SPC RI-[illegible] SPLIT ELEVON	.000	-10.000	-10.000	.000
(AH1003)	△	LA-[illegible] B-ET [illegible] SPLIT ELEVON	.000	[illegible]	[illegible]	.000
(AH1004)	◇	LA-[illegible] B-ET [illegible] SPLIT ELEVON	.000	30.000	30.000	.000



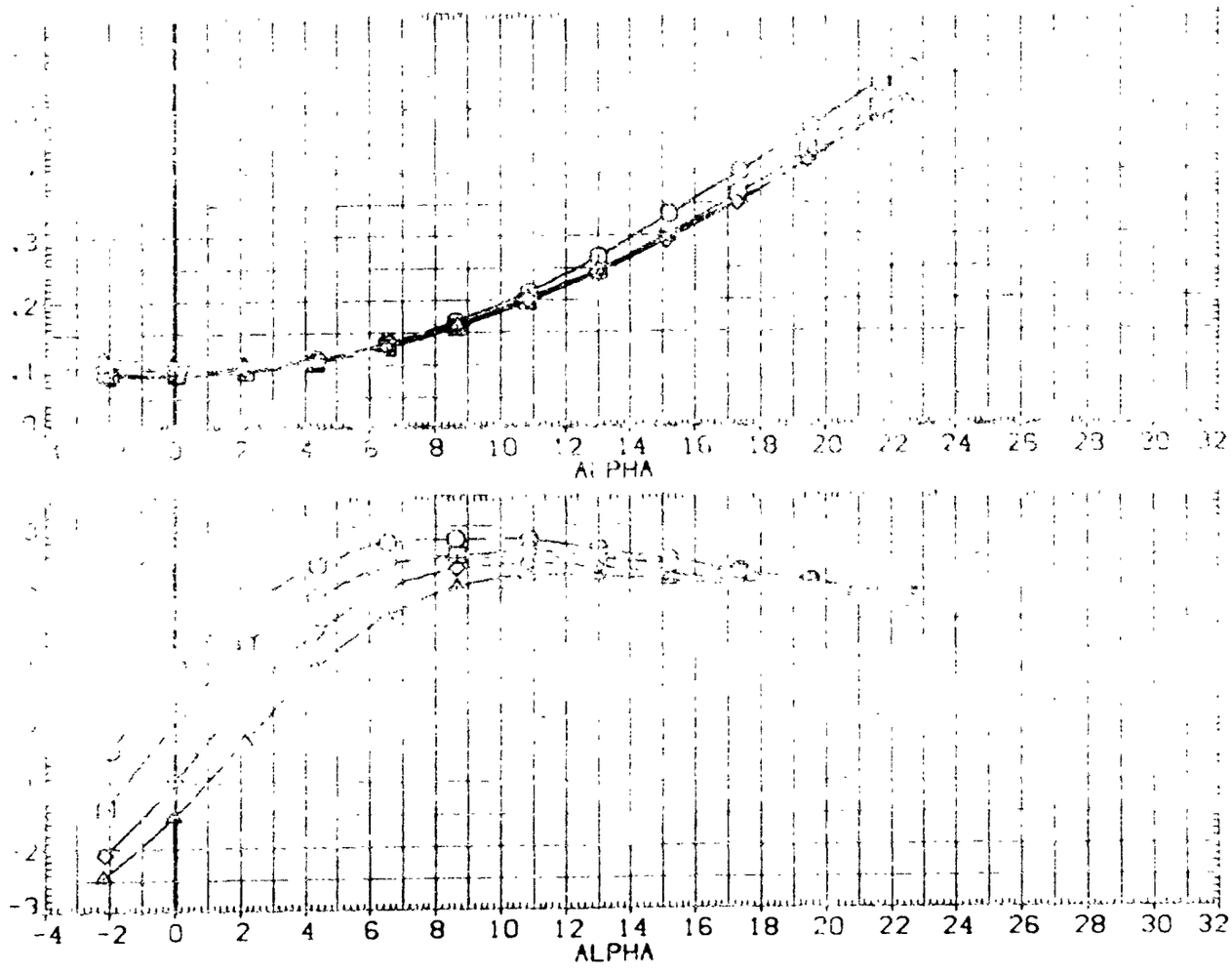


FIGURE 5. INBOARD ELEVON PITCH CHARACTERISTICS

(D)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION		ELV-LO	ELV-LI	ELV-RI	ELV-RO
(A1001)	LA-48 S[illegible] RI-0998/[illegible]	SPLIT ELEVON	.000	.000	.000	.000
(A[illegible]02)	[illegible] RI-0[illegible]	SPLIT ELEVON	.000	-10.000	-10.000	.000
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

FIGURE 5. [illegible]

LEGEND

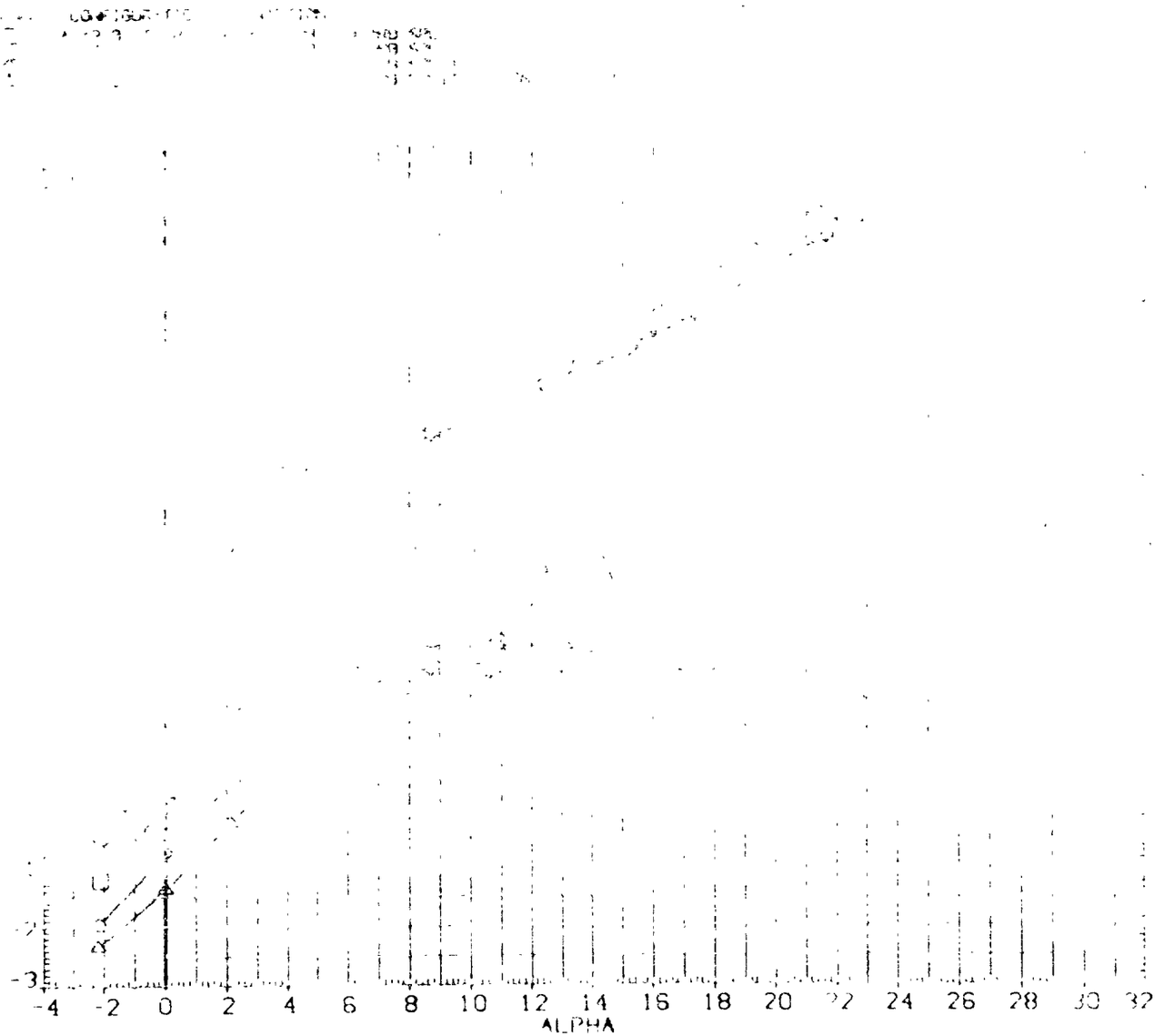


FIGURE 5. INBOARD ELEVON PITCH CHARACTERISTICS

(E)MACH = .92

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	[illegible] SPLIT ELEVON	.000	[illegible]	.000	.000
(AH1002)	[illegible] SPLIT ELEVON	.000	-10.000	-10.000	.000
(AH1003)	[illegible] SPLIT ELEVON	[illegible]	[illegible]	[illegible]	[illegible]
(AH1004)	[illegible] SPLIT ELEVON	[illegible]	[illegible]	[illegible]	[illegible]

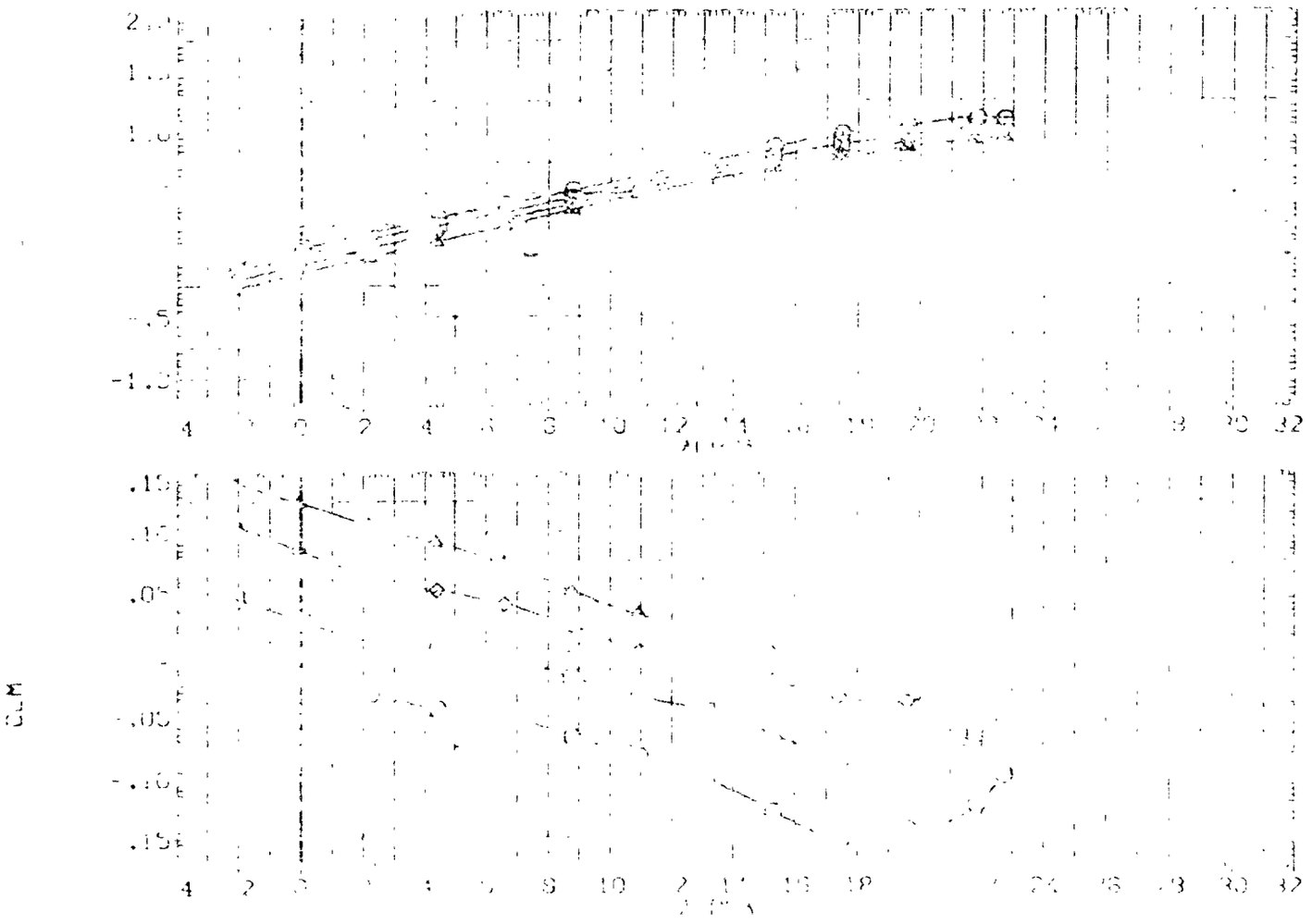


FIGURE [illegible]. [illegible]

([illegible] MACH [illegible])

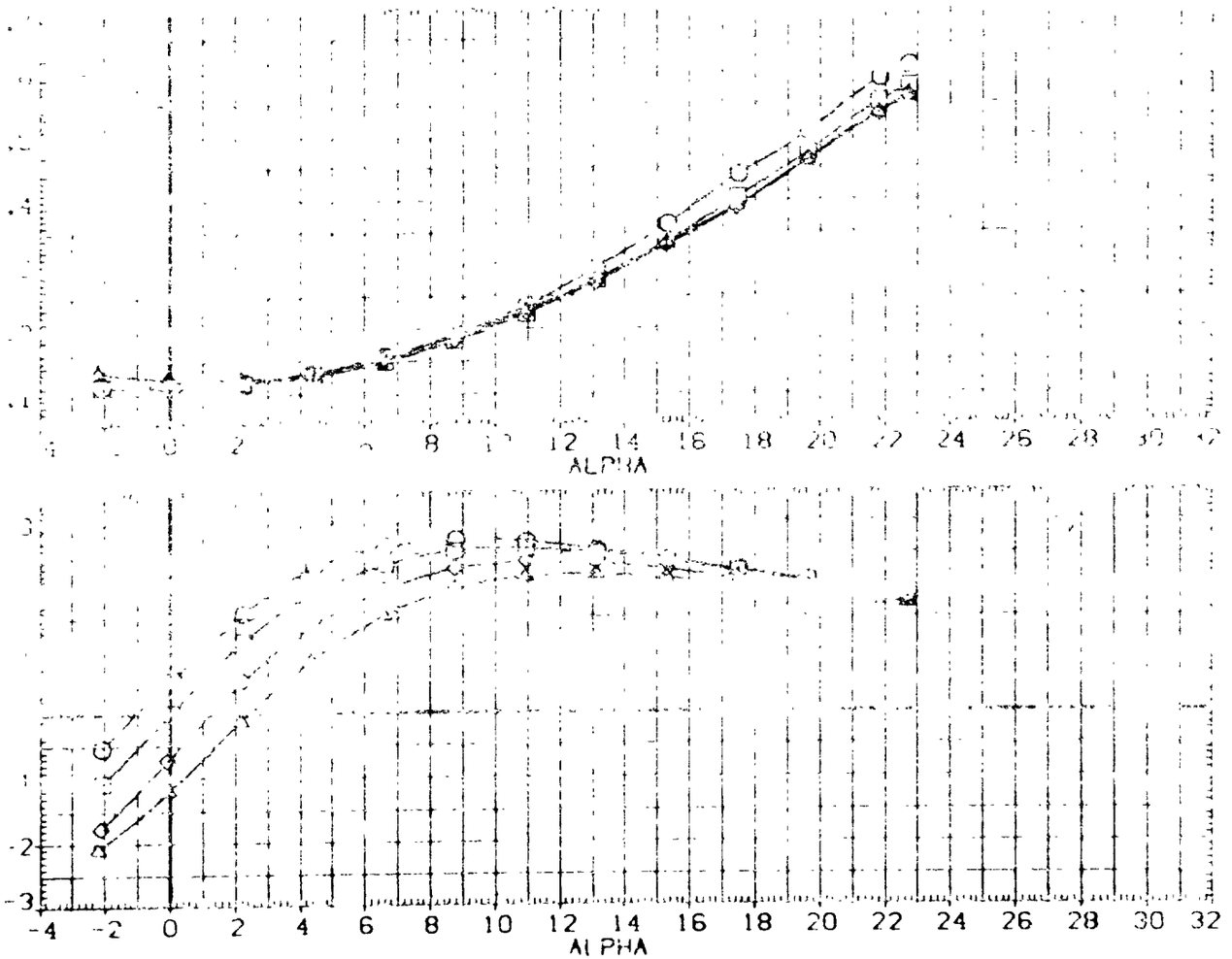


FIGURE 5. '"BOARD ELEVON PITCH CHARACTERISTICS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	◇	LA-43 8-FT TPT 690 RI 0898/130 20% SPLIT ELEVON	.000	.000	.000	.000
(AH1002)	◇□	[illegible] 20% SPLIT ELEVON	.0000	-15.0000	-15.0000	.0000
(AH1003)	□	[illegible] 20% SPLIT ELEVON	.0000	-30.0000	-30.0000	.0000
(AH1004)	△	LA 43 8-FT TPT 680 RI 0898/130 20% SPLIT ELEVON	.000	-30.000	-30.000	.000

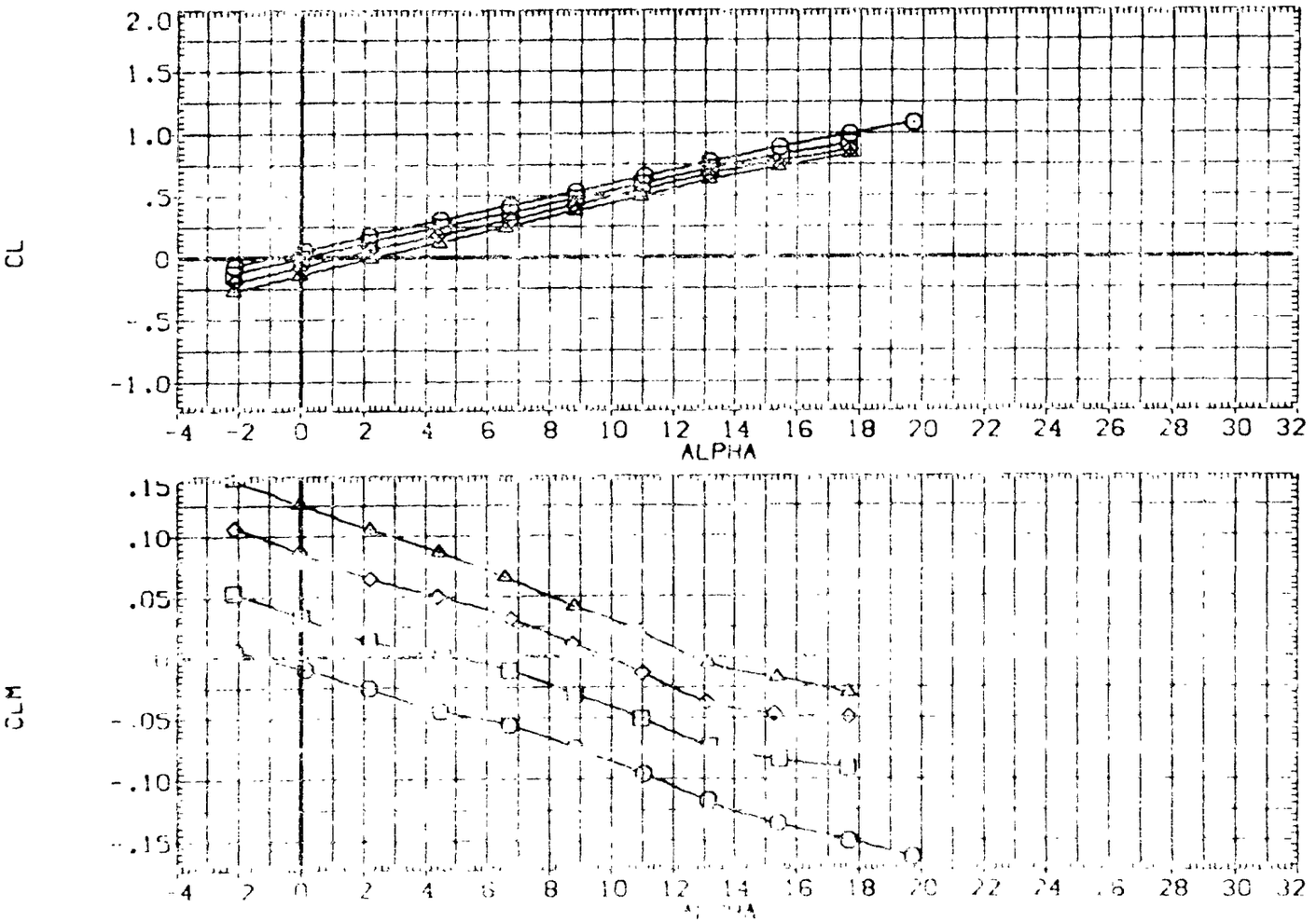


FIGURE [illegible] CHARACTERISTICS

MACH

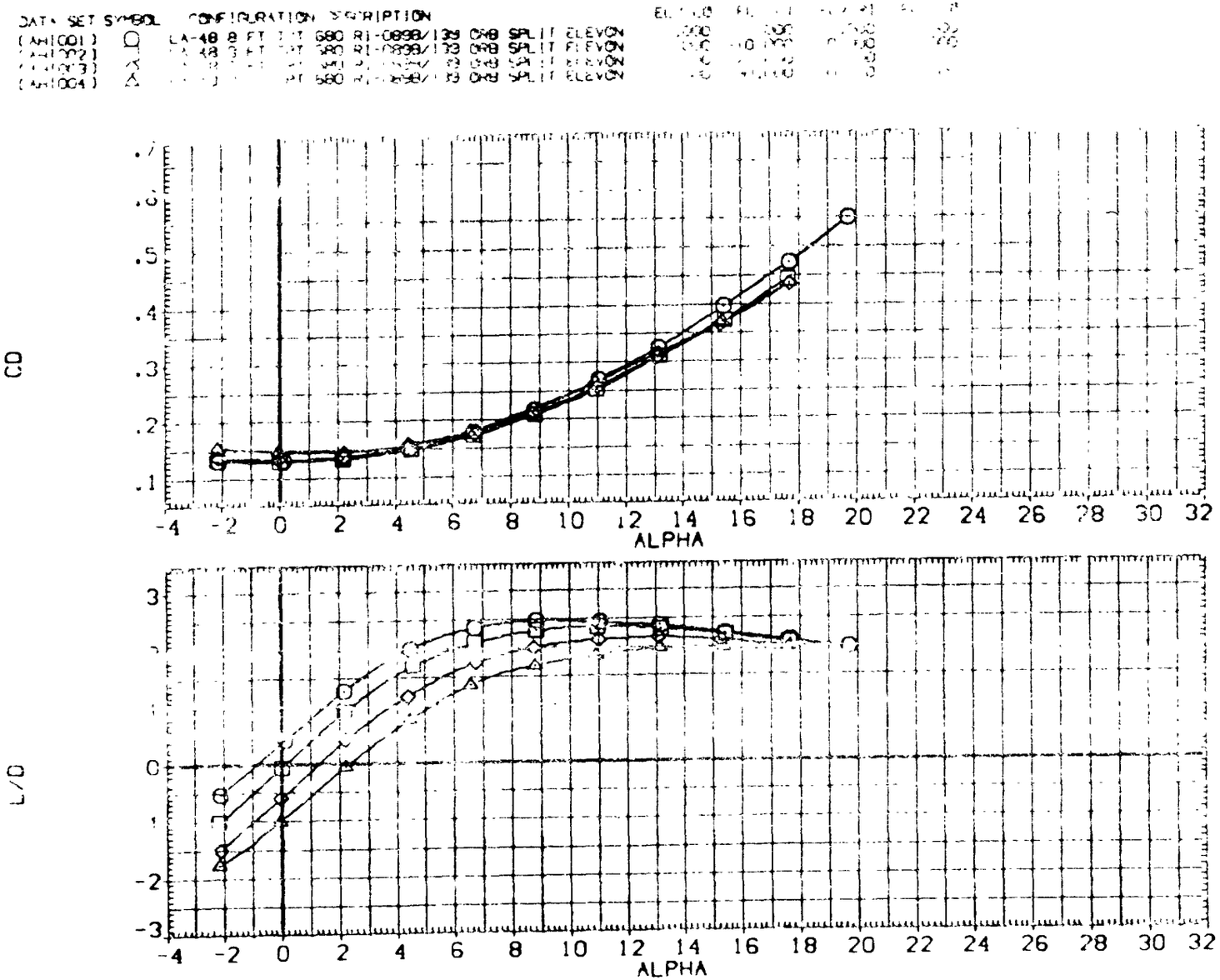


FIGURE 5. INBOARD ELEVON PITCH CHARACTERISTICS

(G)MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1001)	□	LA-48 8 FT TPT 680 RI-0898/139 0R8 SPLIT ELEVON	.000	.000	.000	.000
(AH1002)	□	LA-48 8-FT TPT 680 RI-0898/139 0R8 SPLIT ELEVON	.000	-10.000	-10.000	.000
(AH1003)	◇	LA-48 8 FT TPT 680 RI-0898/139 0R8 SPLIT ELEVON	.000	-20.000	20.000	.000
(AH1004)	△	LA-48 8 FT TPT 680 RI-0898/139 0R8 SPLIT ELEVON	.000	-30.000	30.000	.000

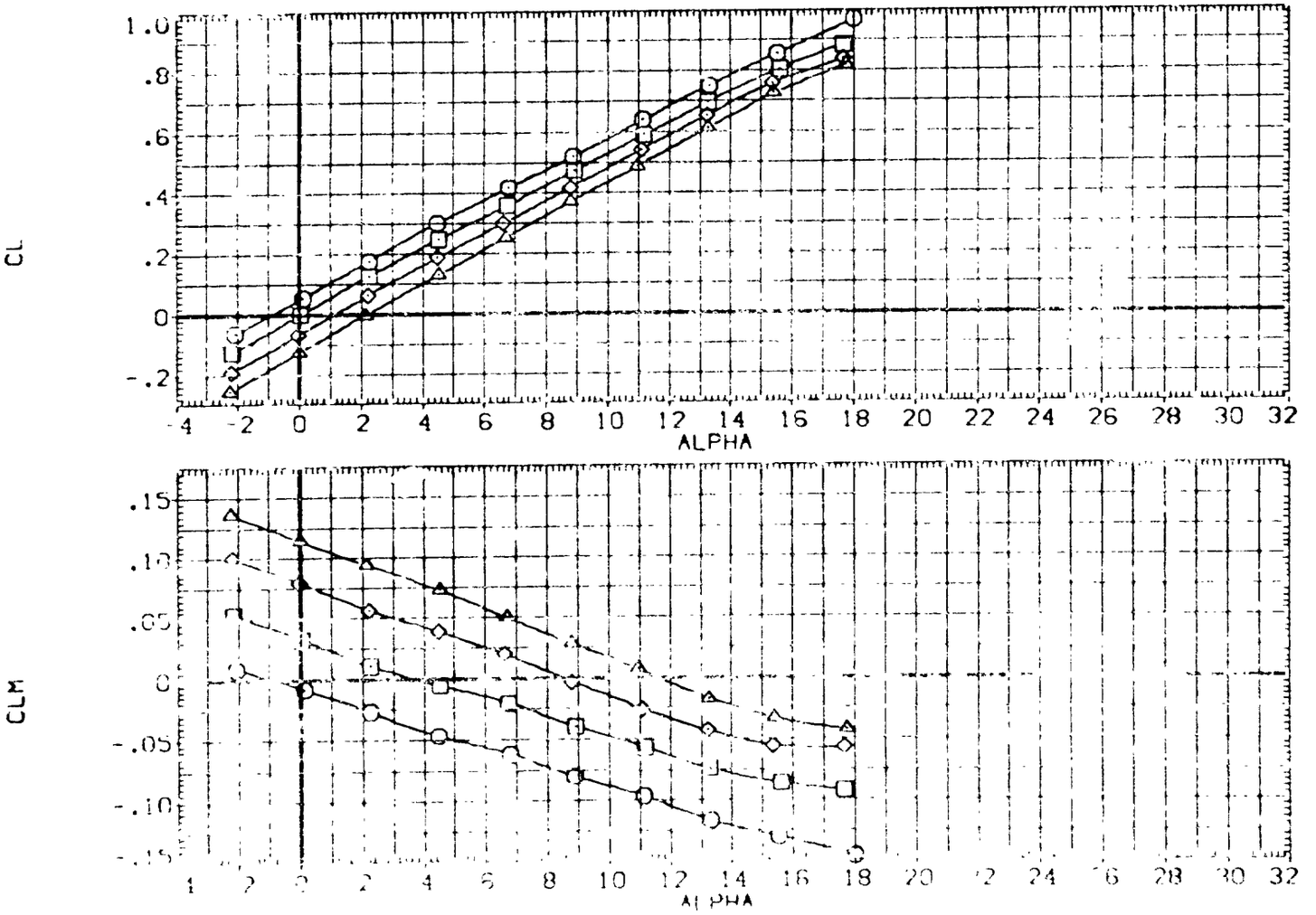


FIGURE 5. [illegible] ELEVON PITCH CHARACTERISTICS

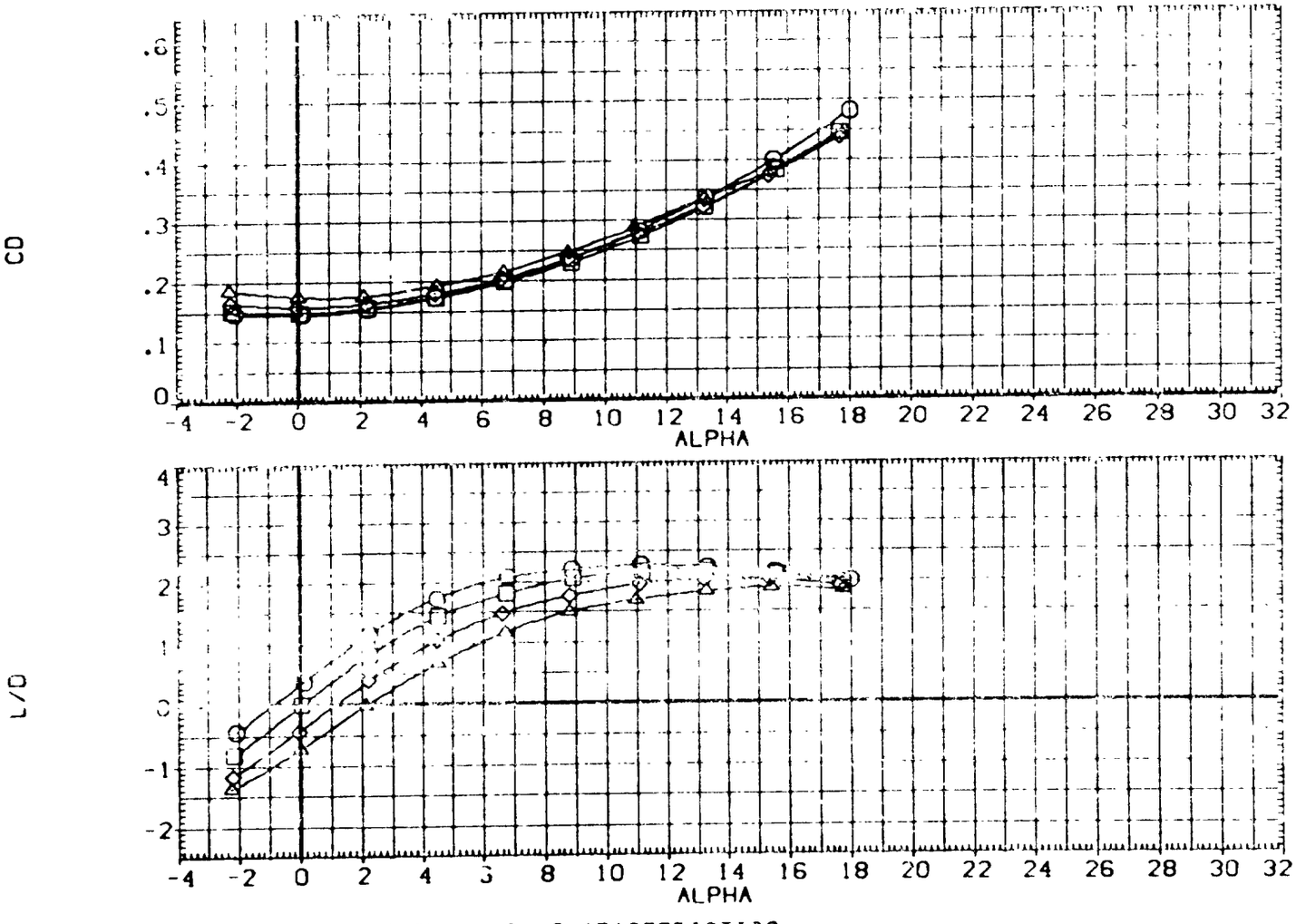


FIGURE 5. INBOARD ELEVON PITCH CHARACTERISTICS

(H)MACH = 1.08

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LI	ELV-RI	ELV-RO
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

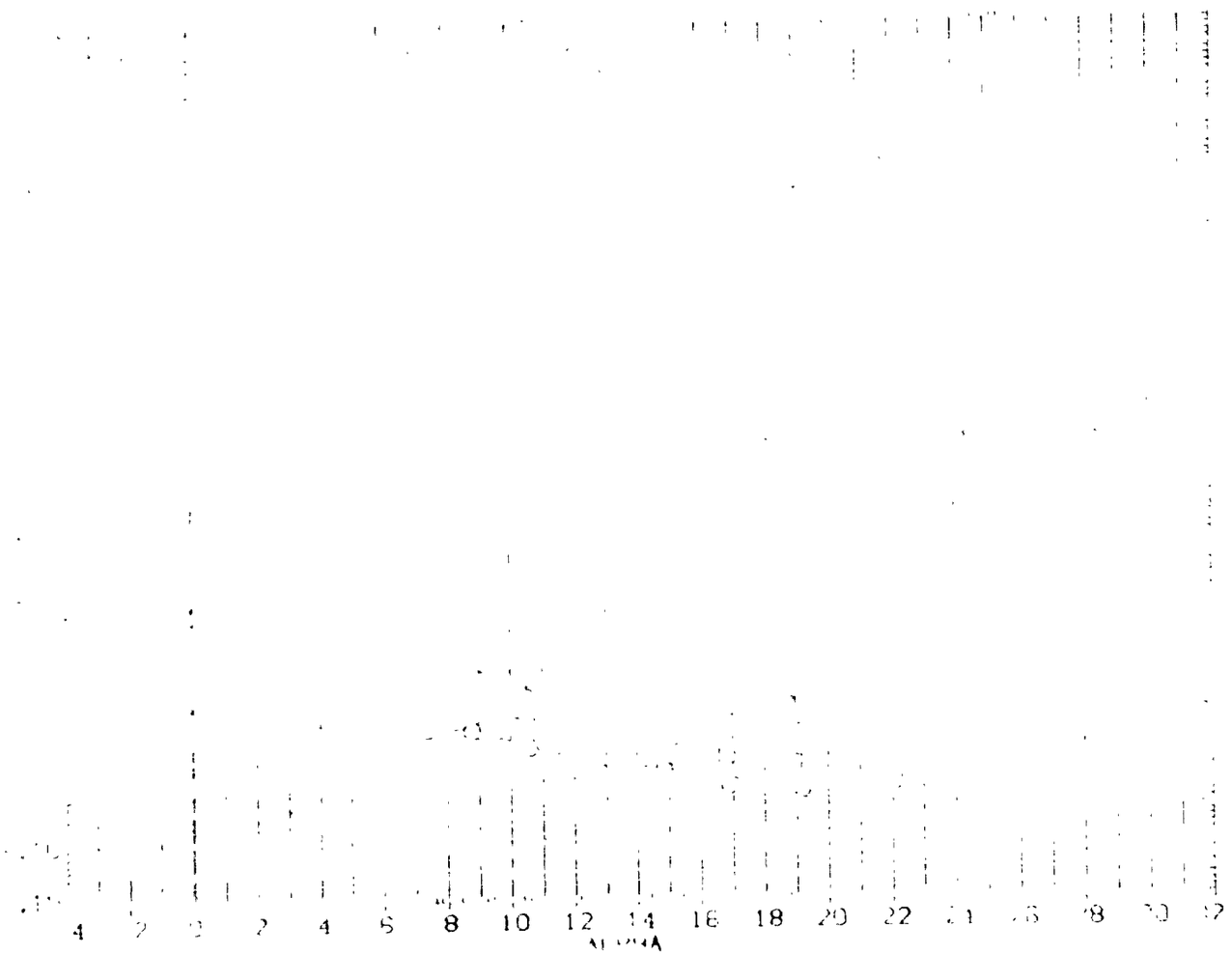


FIGURE 5. [illegible] ELEVON PITCH CHARACTERISTICS

(A) MACH [illegible].90

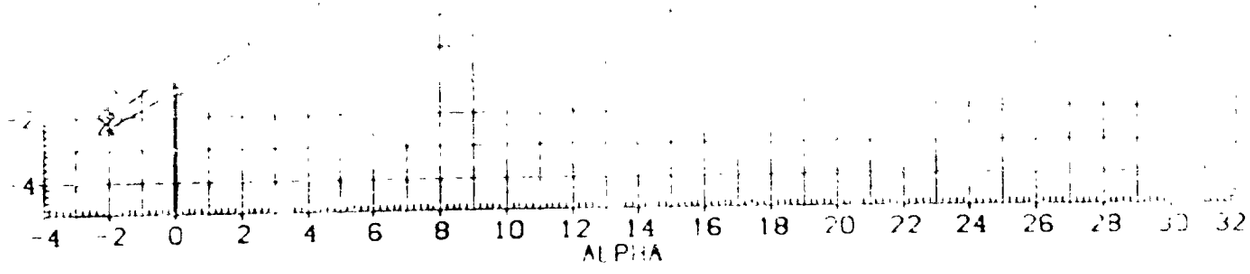


FIGURE 6. OUTBOARD ELEVON PITCH CHARACTERISTICS

(A)MACH = .60

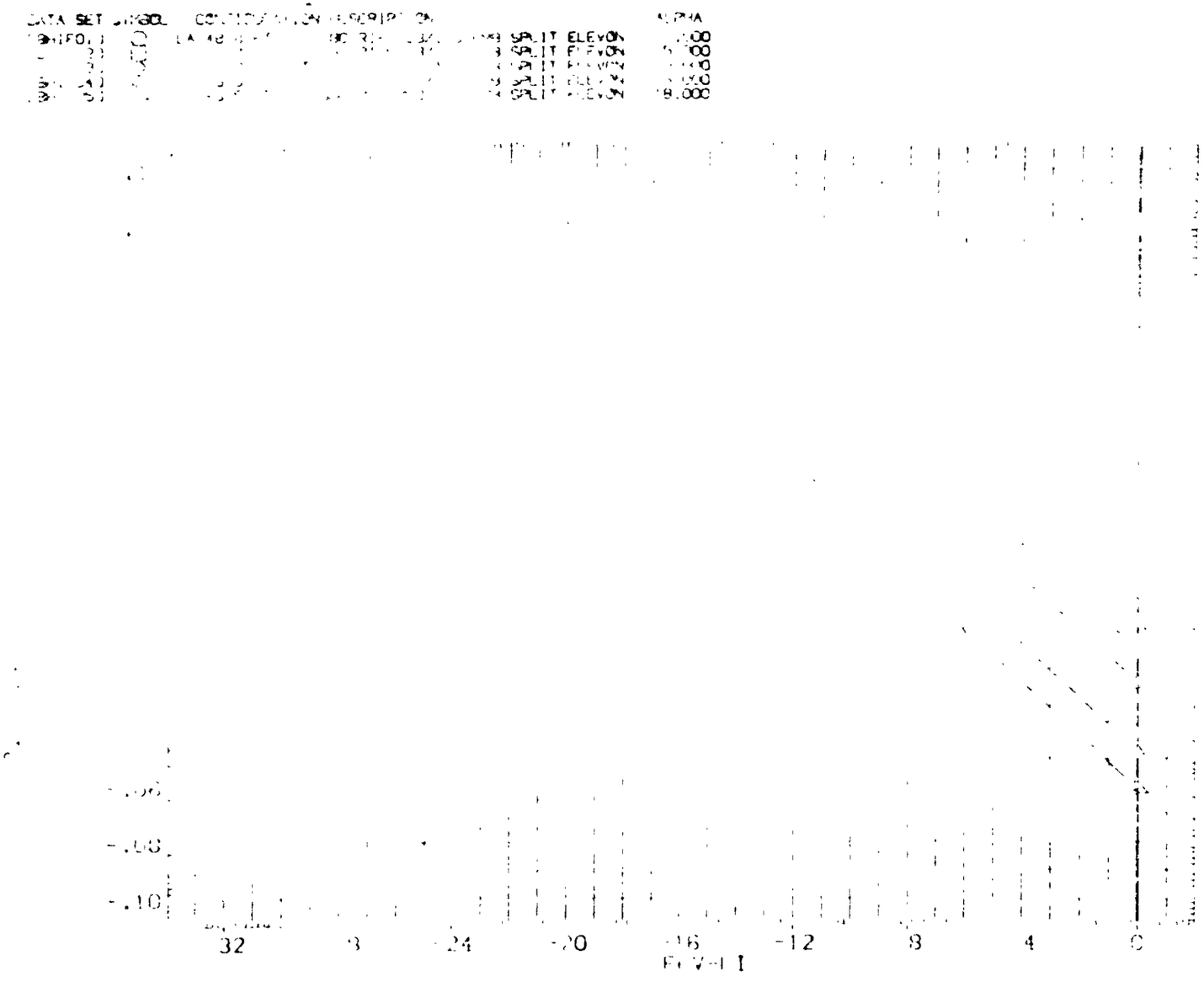


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(A)MACH = .60

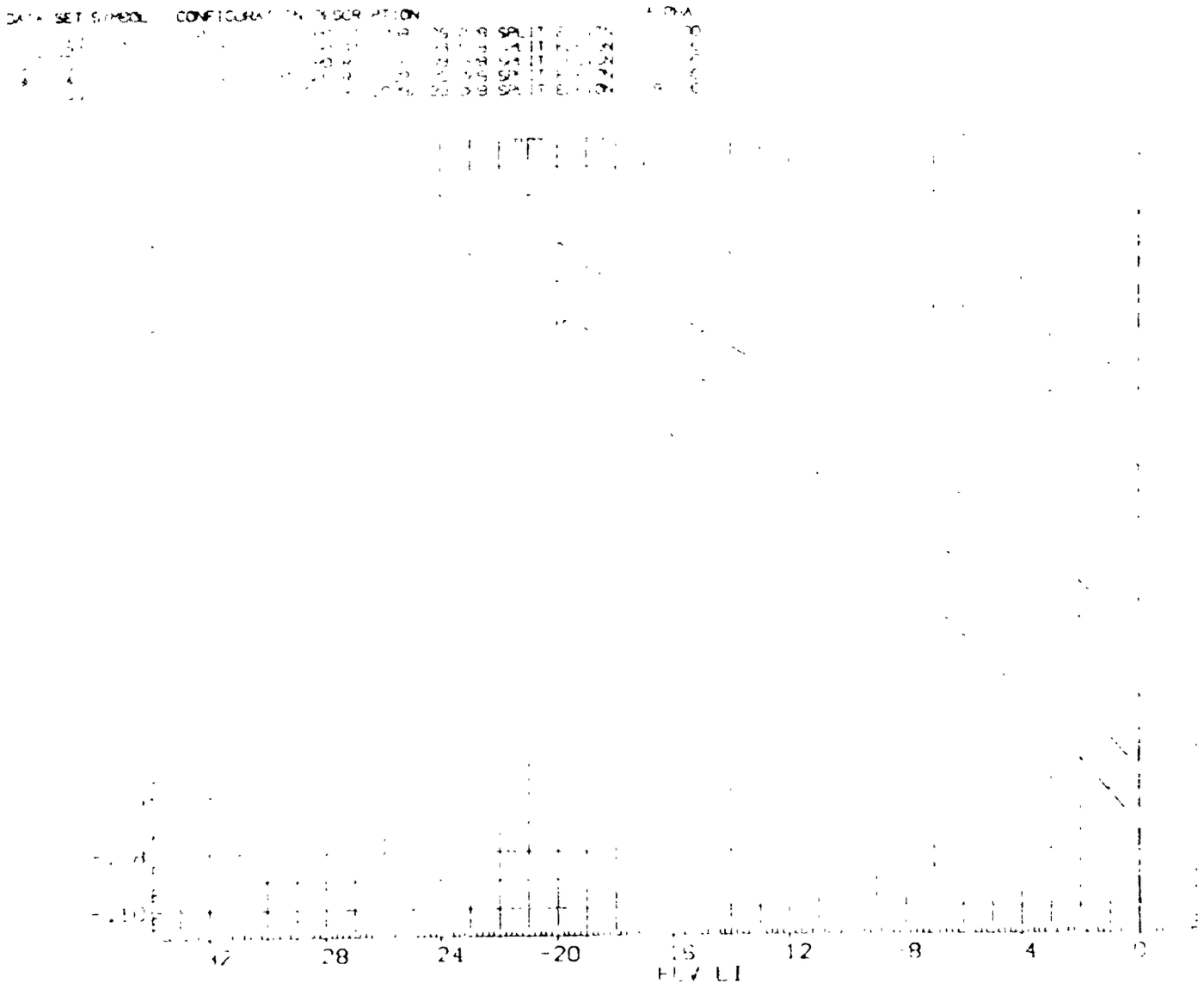


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

CB,MACH = .80

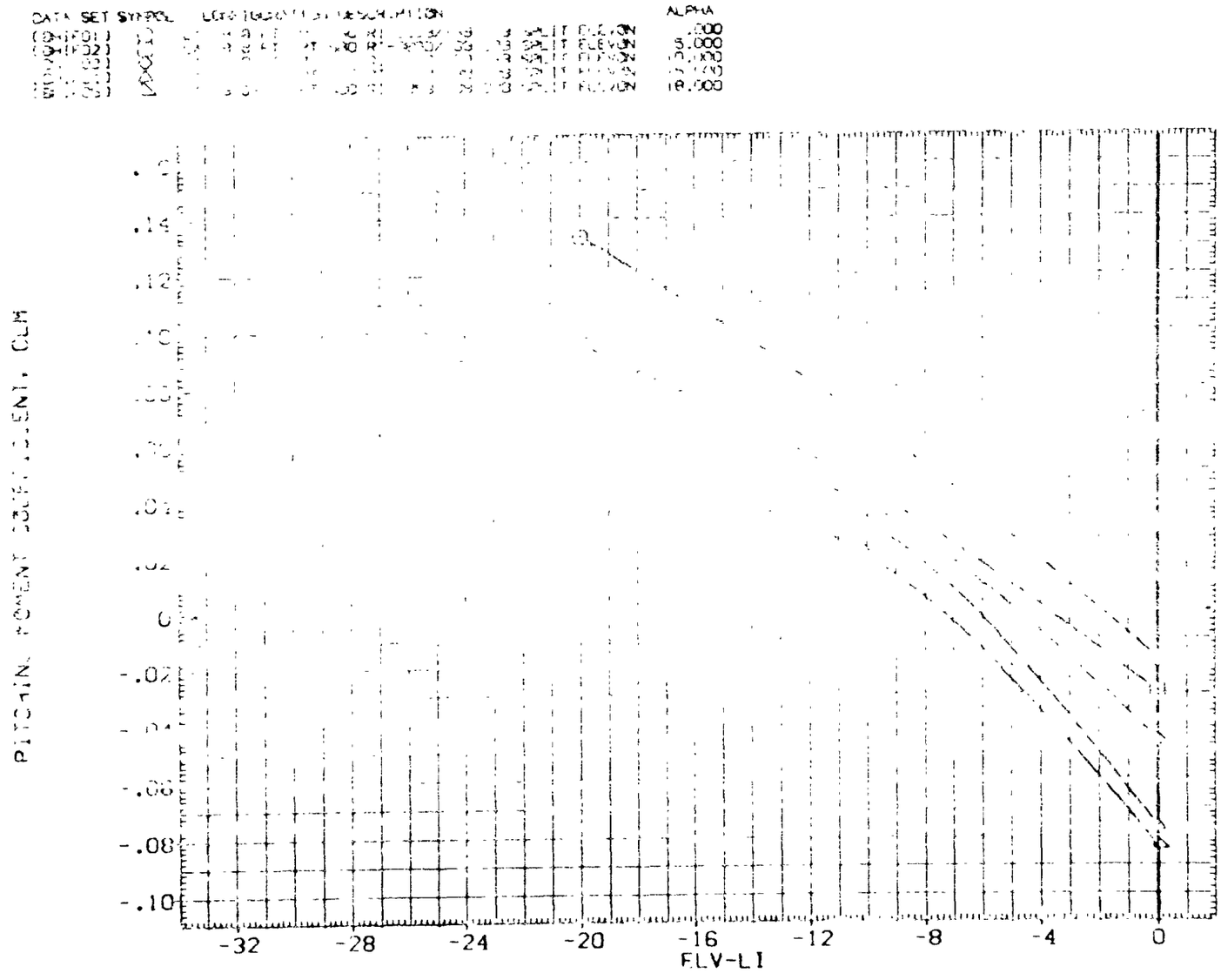


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(C)MACH = .35

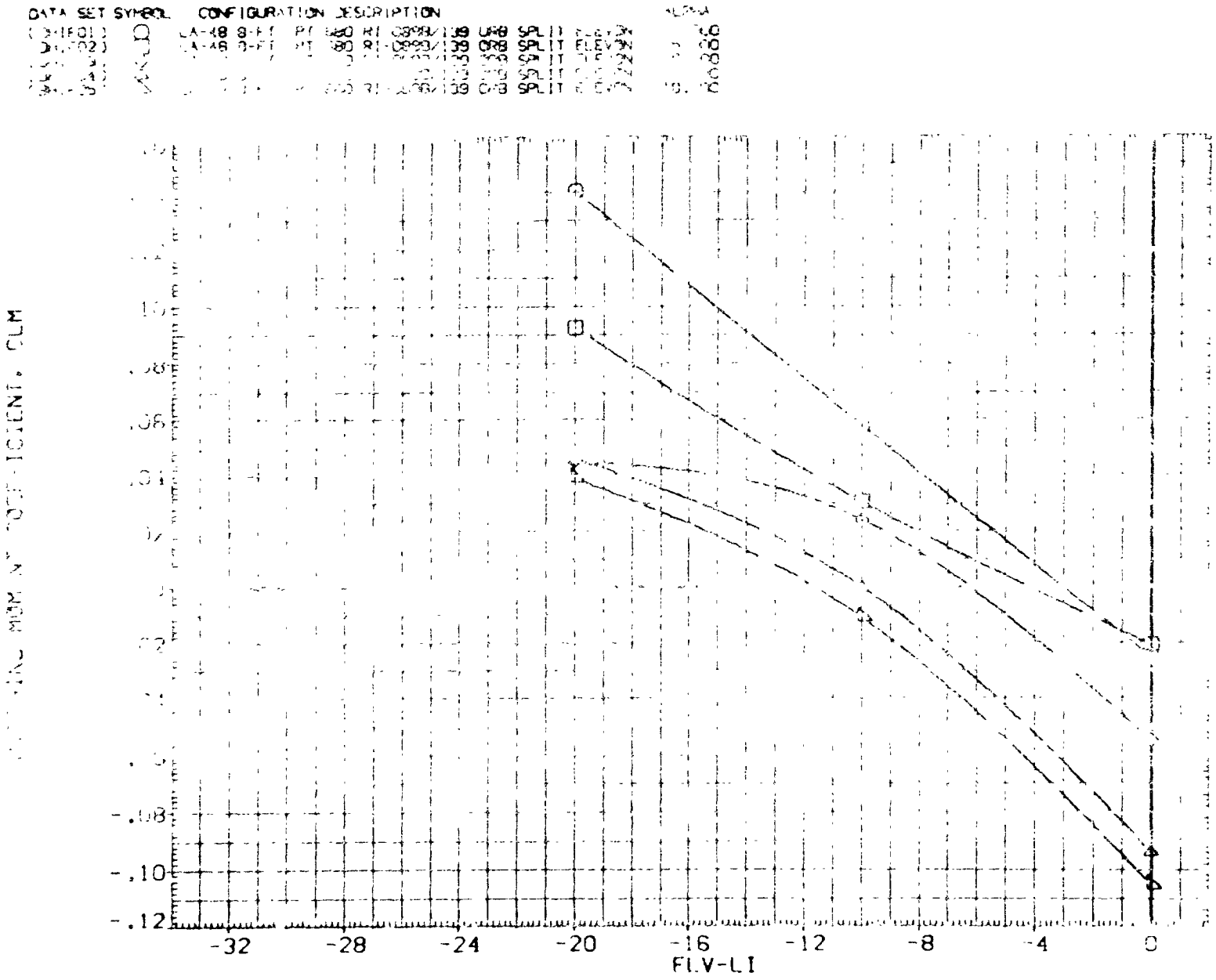


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(D)MACH = .30

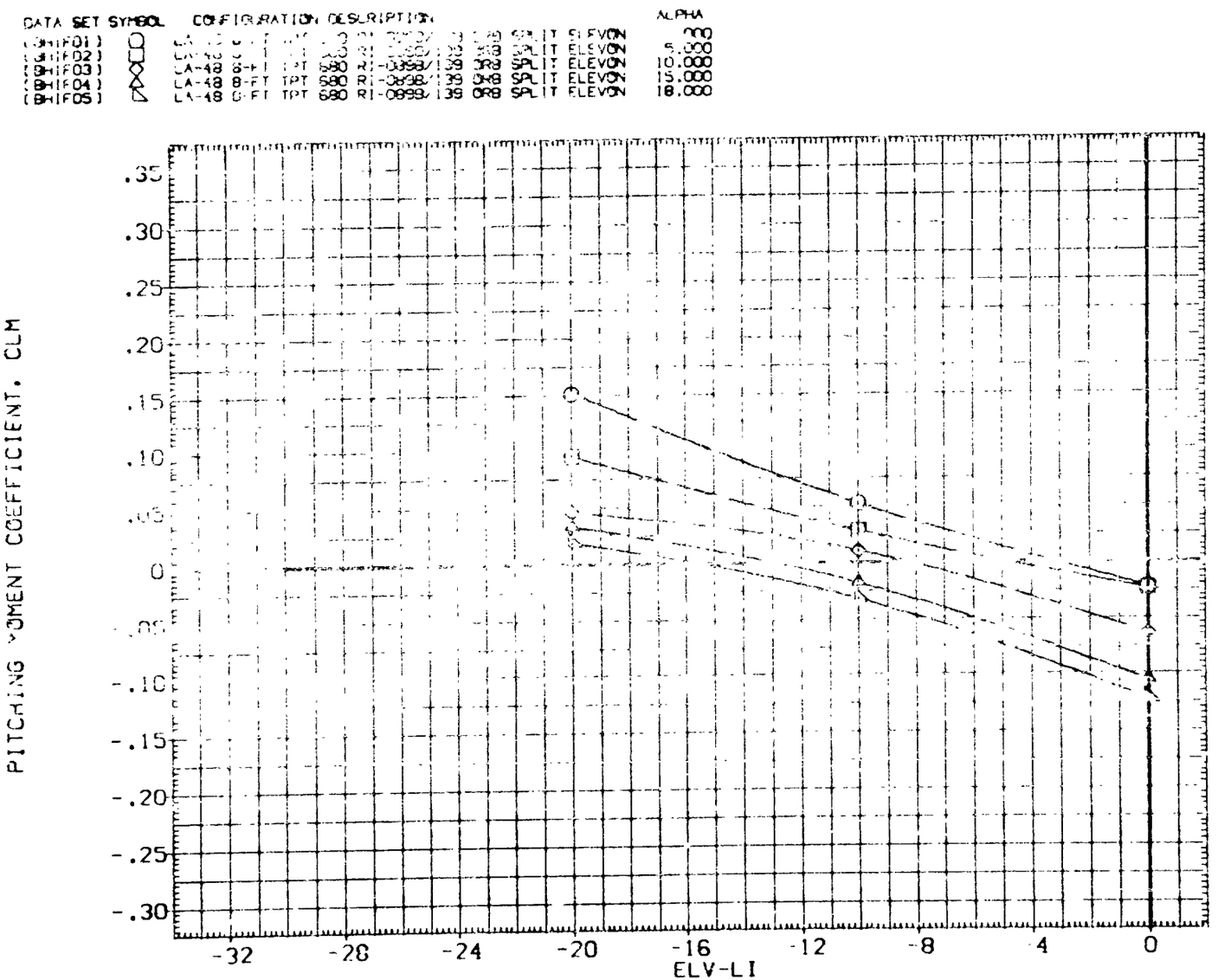


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B-1F01)	○	LA-48 B FT TPT 090 RI-0898/139 ORB SPLIT ELEVON	.000
(B-1F02)	□	LA-48 B FT TPT 090 RI-0898/139 ORB SPLIT ELEVON	5.000
(B-1F03)	◇	LA-48 B FT TPT 090 RI-0898/139 ORB SPLIT ELEVON	10.000
(B-1F04)	△	LA-48 B FT TPT 090 RI-0898/139 ORB SPLIT ELEVON	15.000
(B-1F05)	▽	LA-48 B FT TPT 090 RI-0898/139 ORB SPLIT ELEVON	18.000

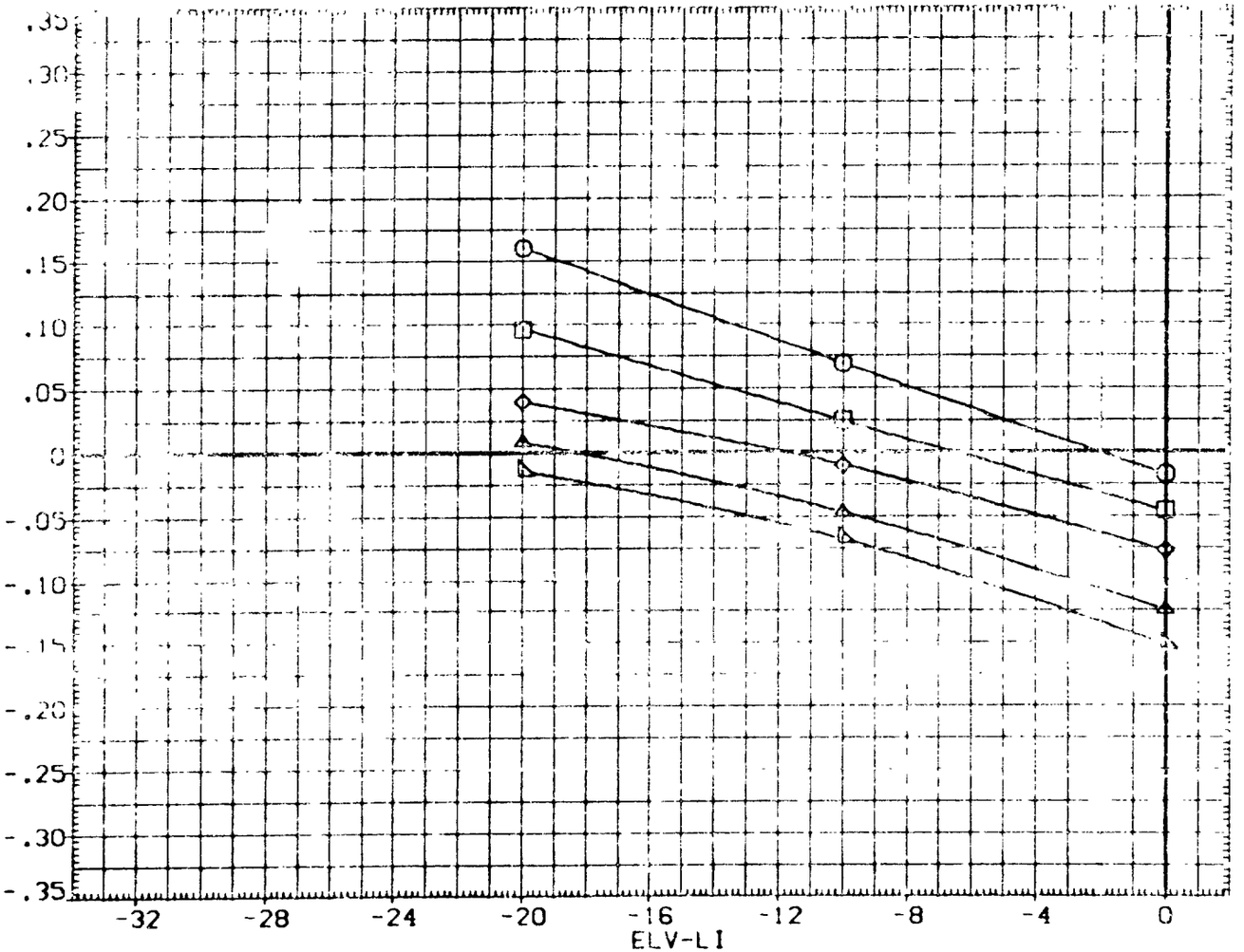
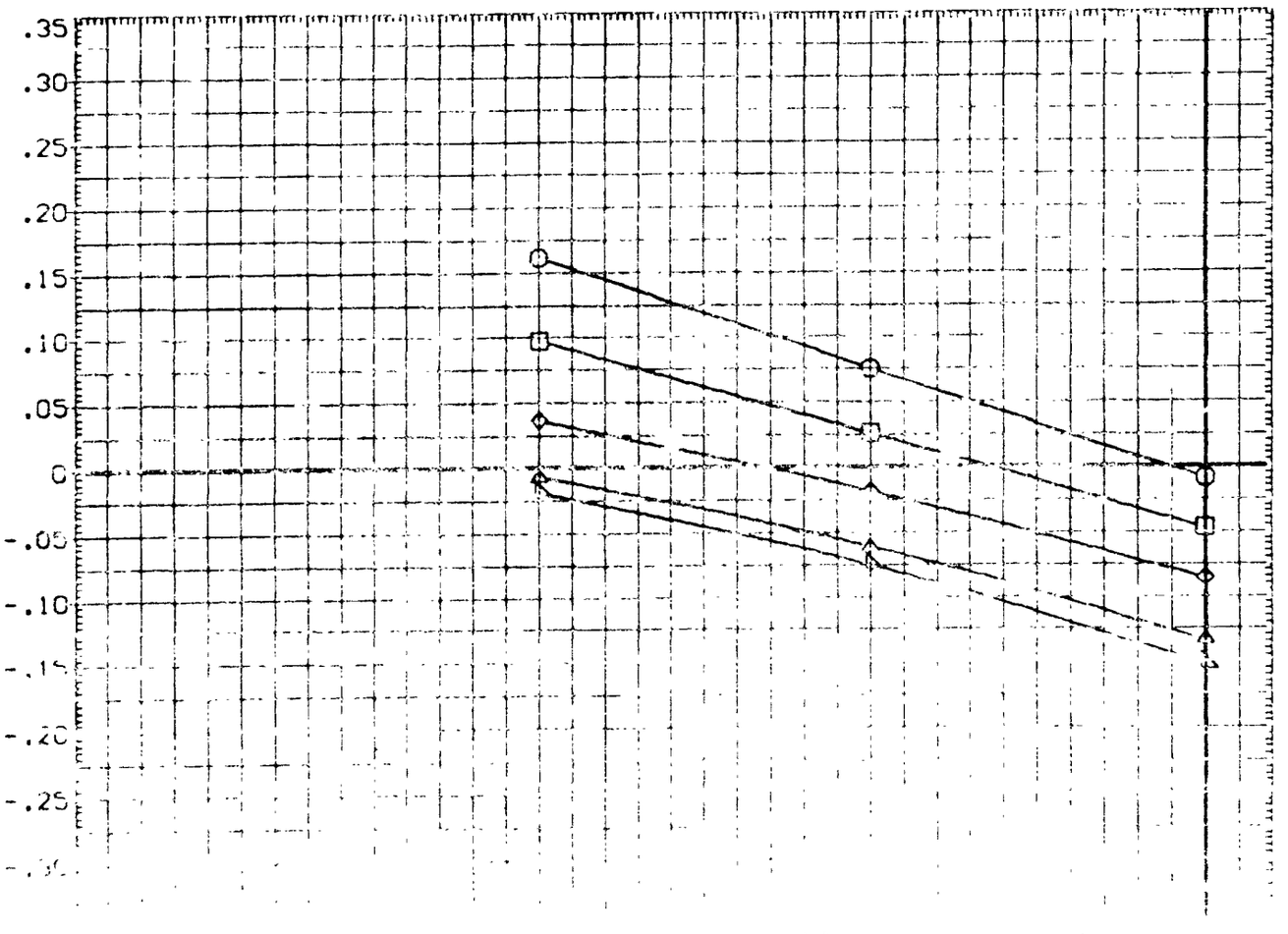


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(BHIF01)		LA-48 8-FT TPT 680 RI-0898/139 DRB SPLIT ELEVON	.000
(BHIF02)		LA-48 8-FT TPT 680 RI-0898/139 DRB SPLIT ELEVON	5.000
(BHIF03)		LA-48 8-FT TPT 680 RI-0898/139 DRB SPLIT ELEVON	10.000
(BHIF04)		LA-48 8-FT TPT 680 RI-0898/139 DRB SPLIT ELEVON	15.000
(BHIF05)		LA-48 8-FT TPT 680 RI-0898/139 DRB SPLIT ELEVON	19.000



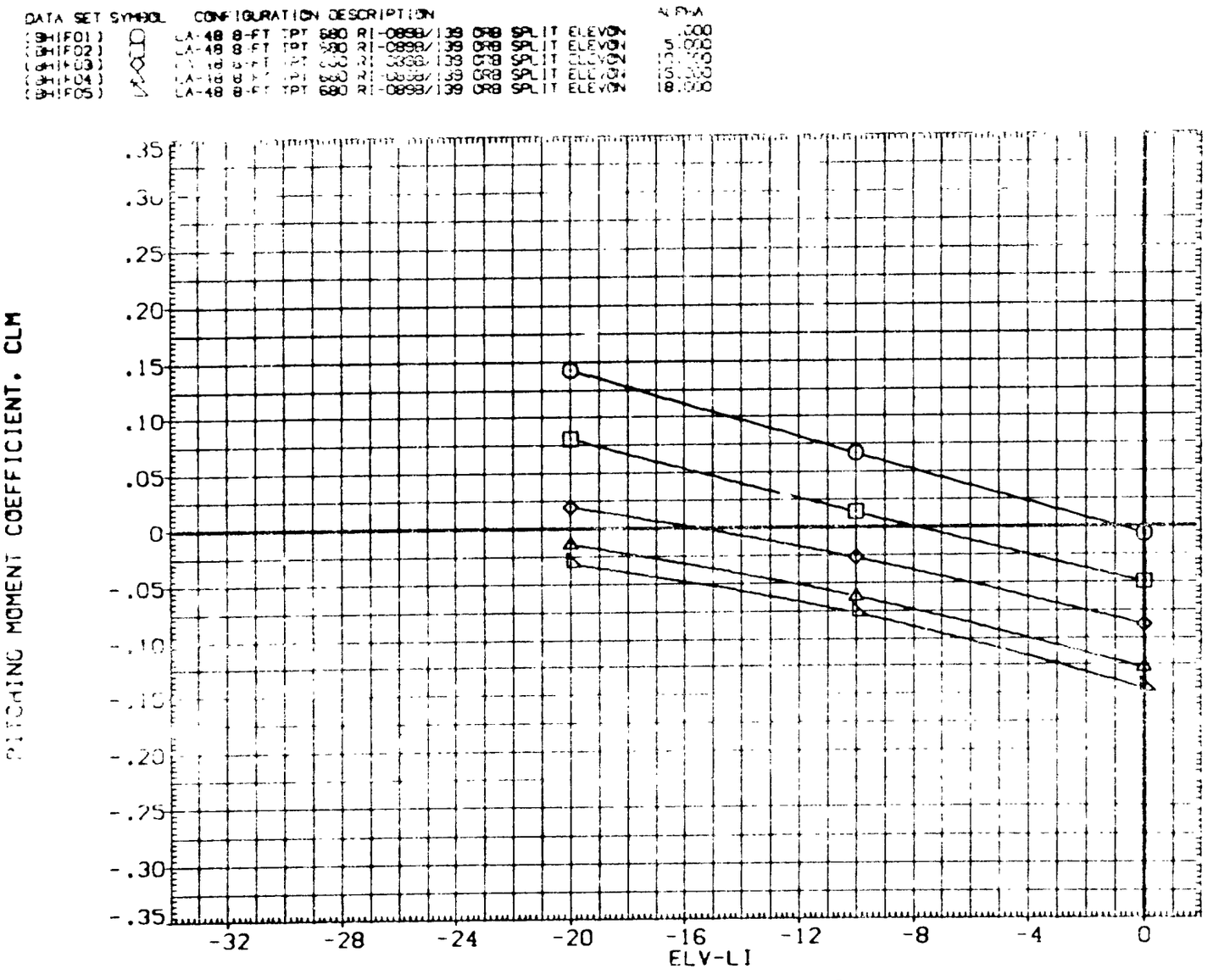
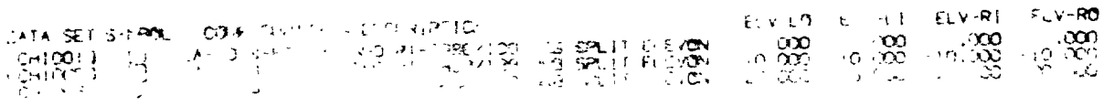


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(H)MACH = 1.08



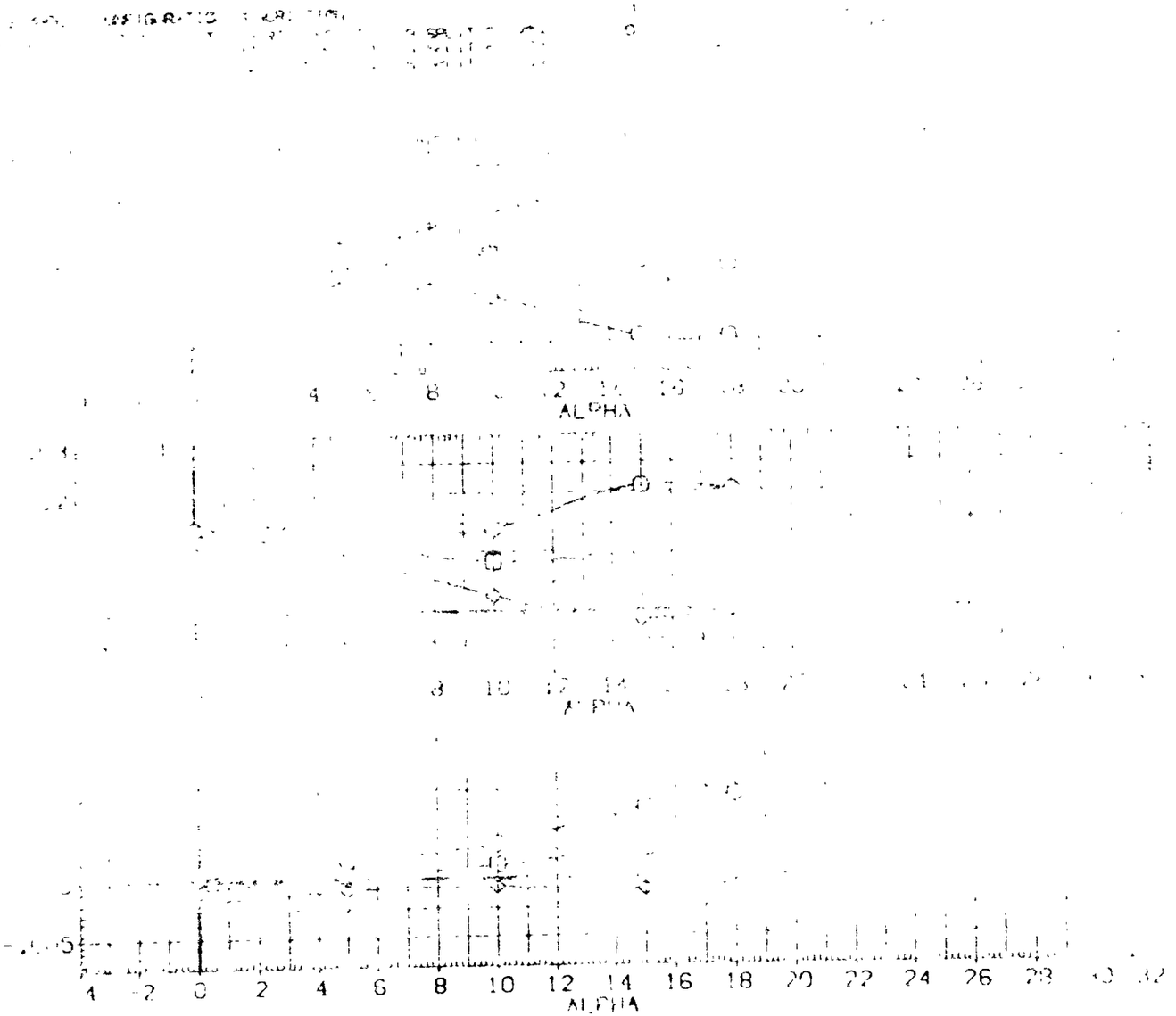
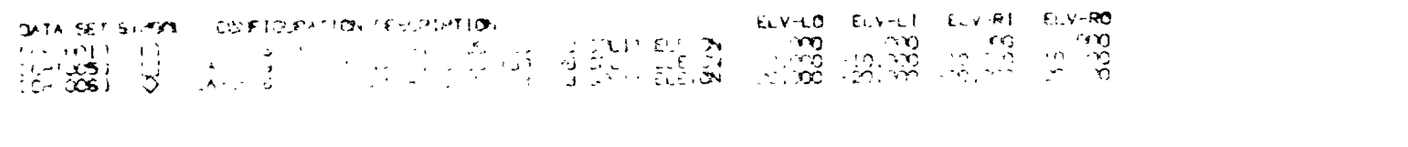


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(B)MACH = .80


DATA SET
CONFIGURATION DESCRIPTION
ELV-LO
ELV-LT
ELV-RT
ELV-RO

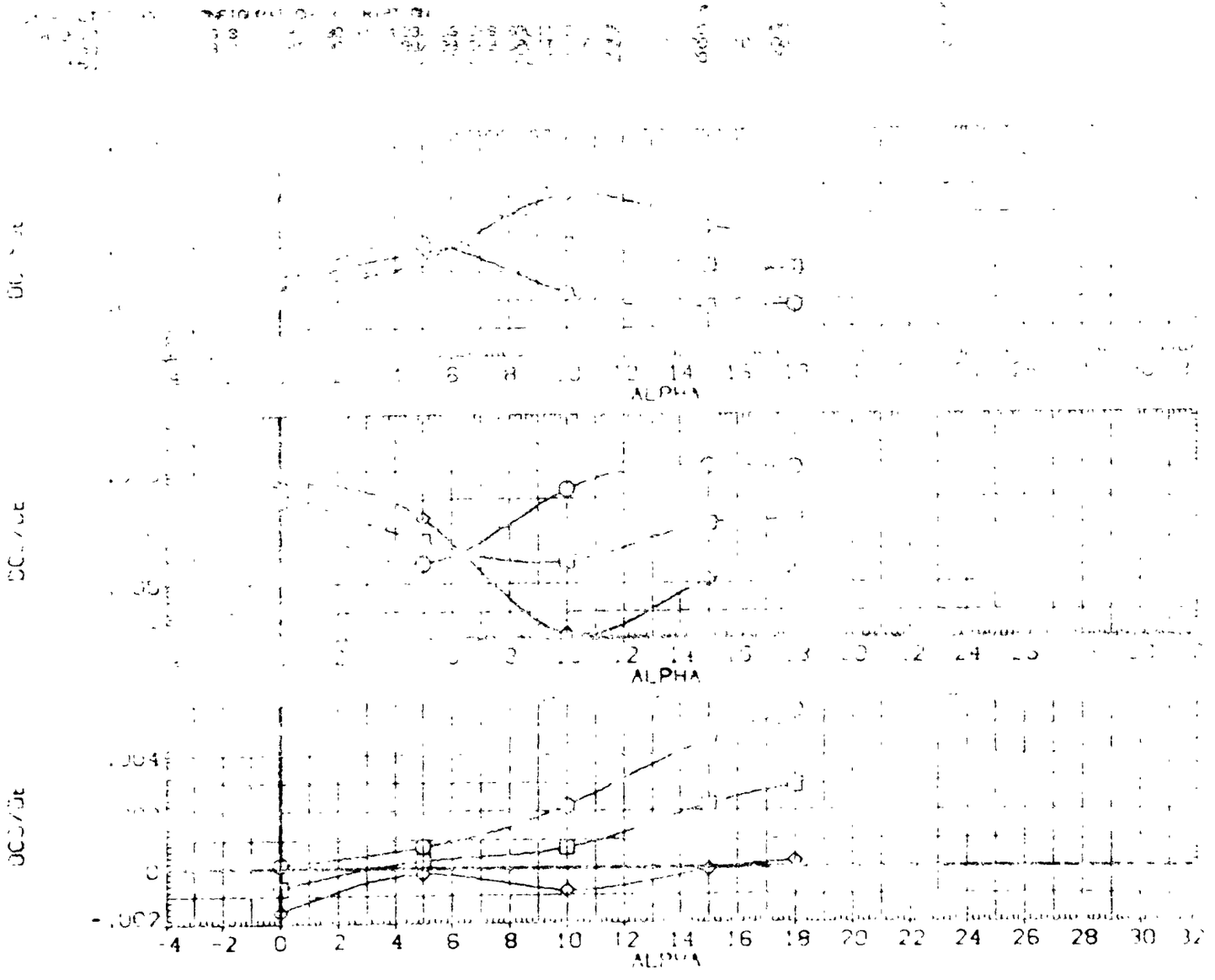
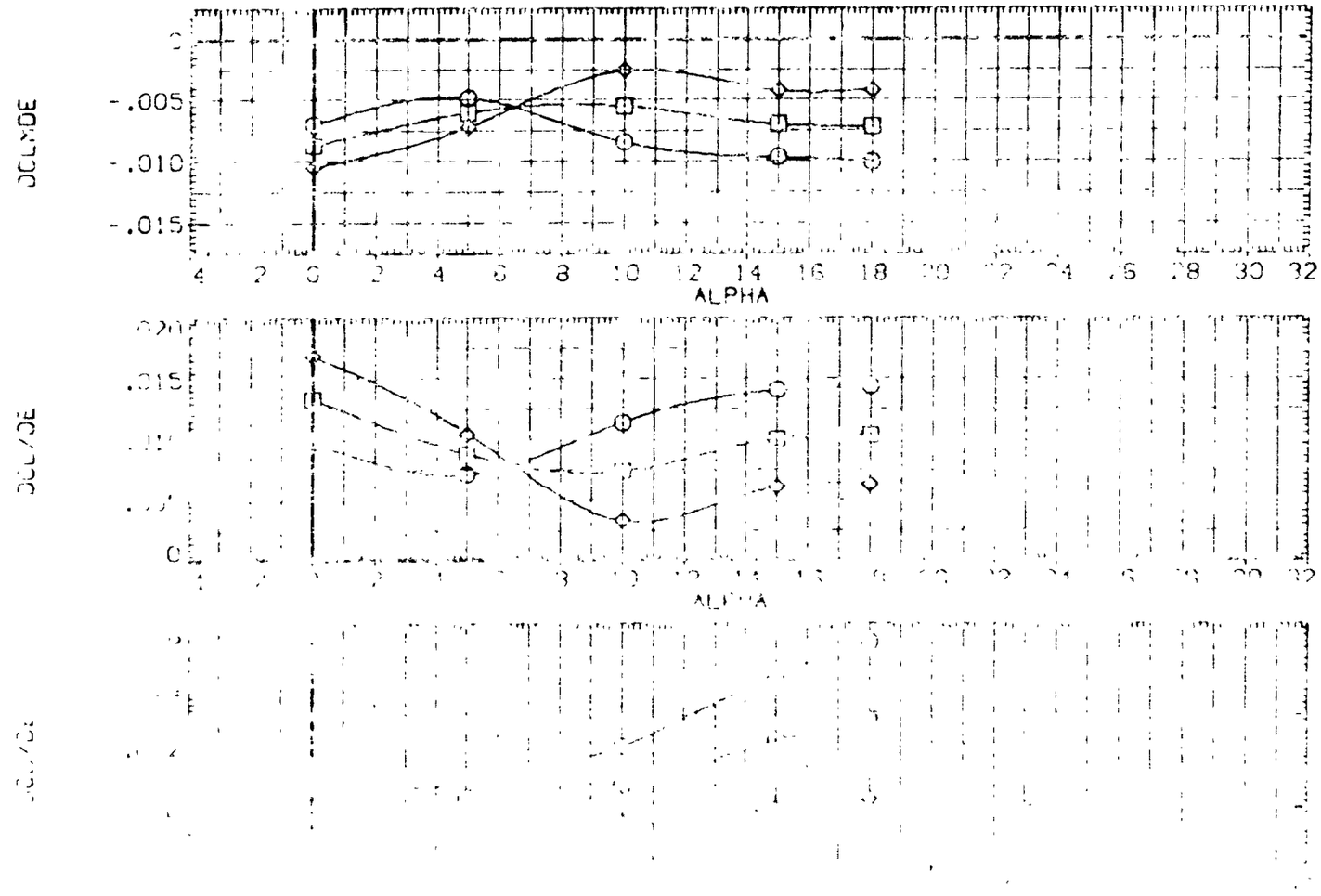


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1001)	○	LA-48 3 FT IPT 680 RI-0656/1.20 0.28 SPLIT ELEVON	.000	.000	.000	.000
(CH1005)	□	LA-48 8 FT IPT 680 RI-0839/1.39 0.28 SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(CH1006)	◇	[illegible] 680 RI-[illegible] 28 SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000



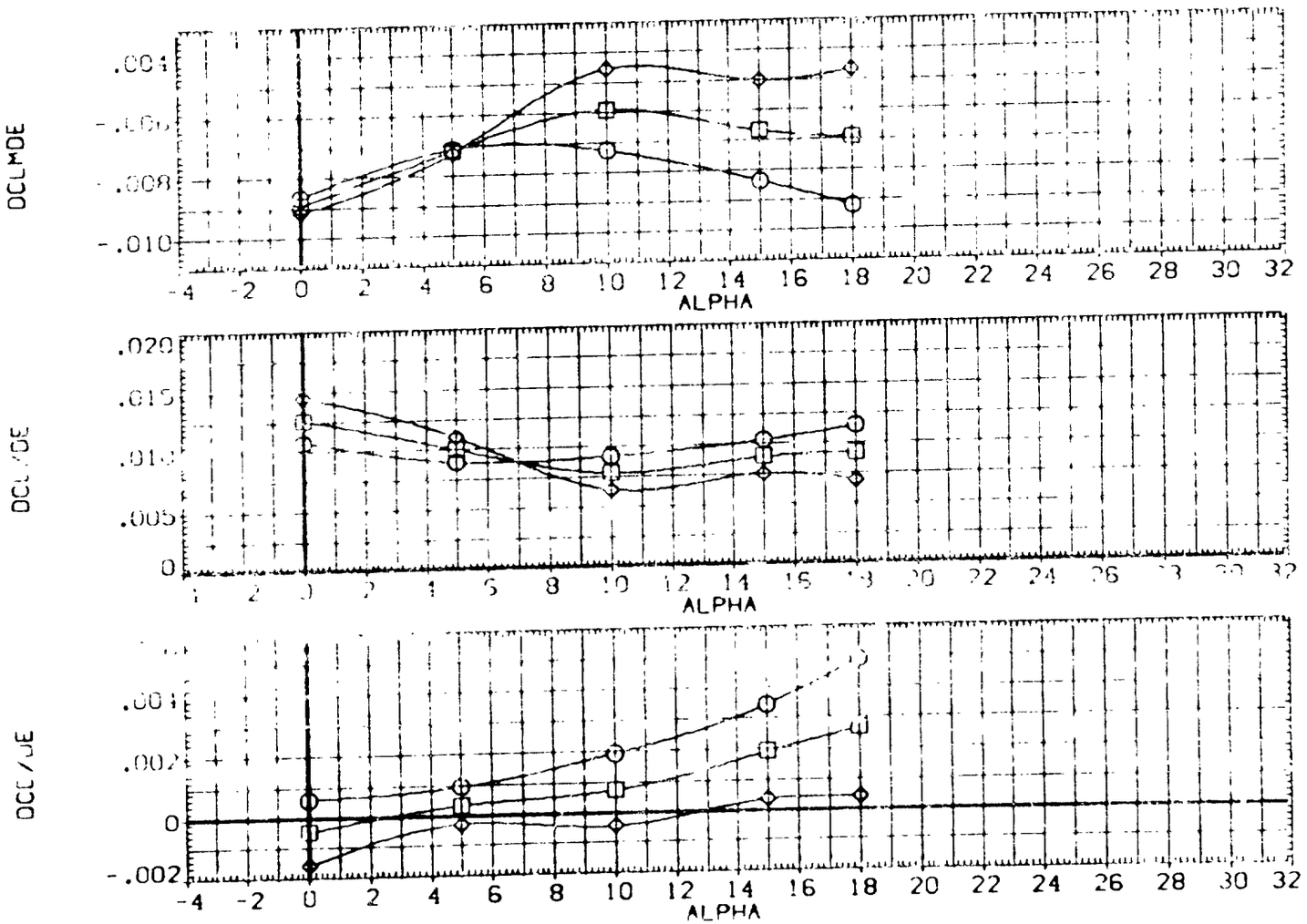
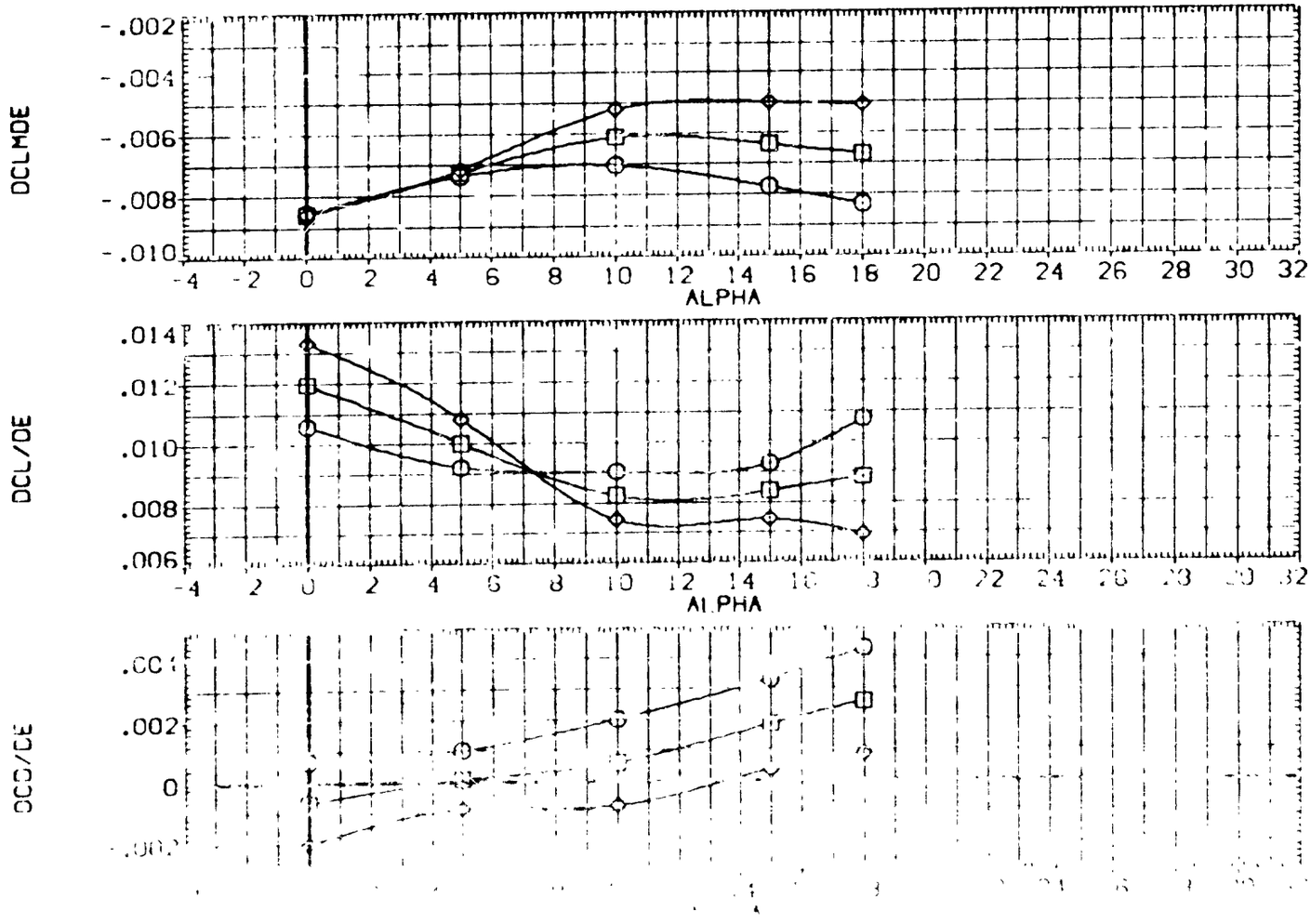


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(24100[illegible])	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	.000	.000	.000
(24100[illegible])	□	LA-48 8 FT PT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(24100[illegible])	◇	LA-48 8 FT PT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	20.000



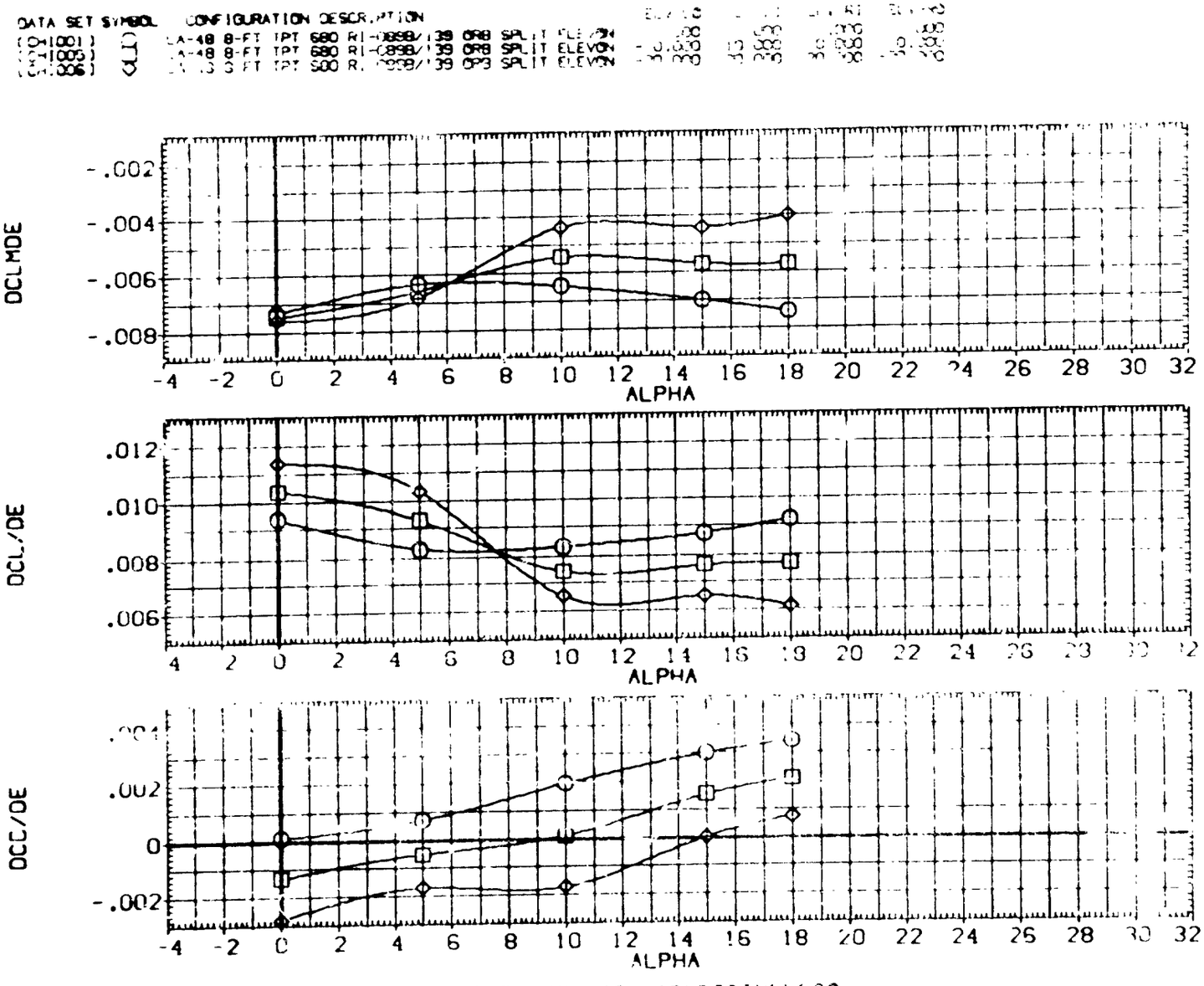
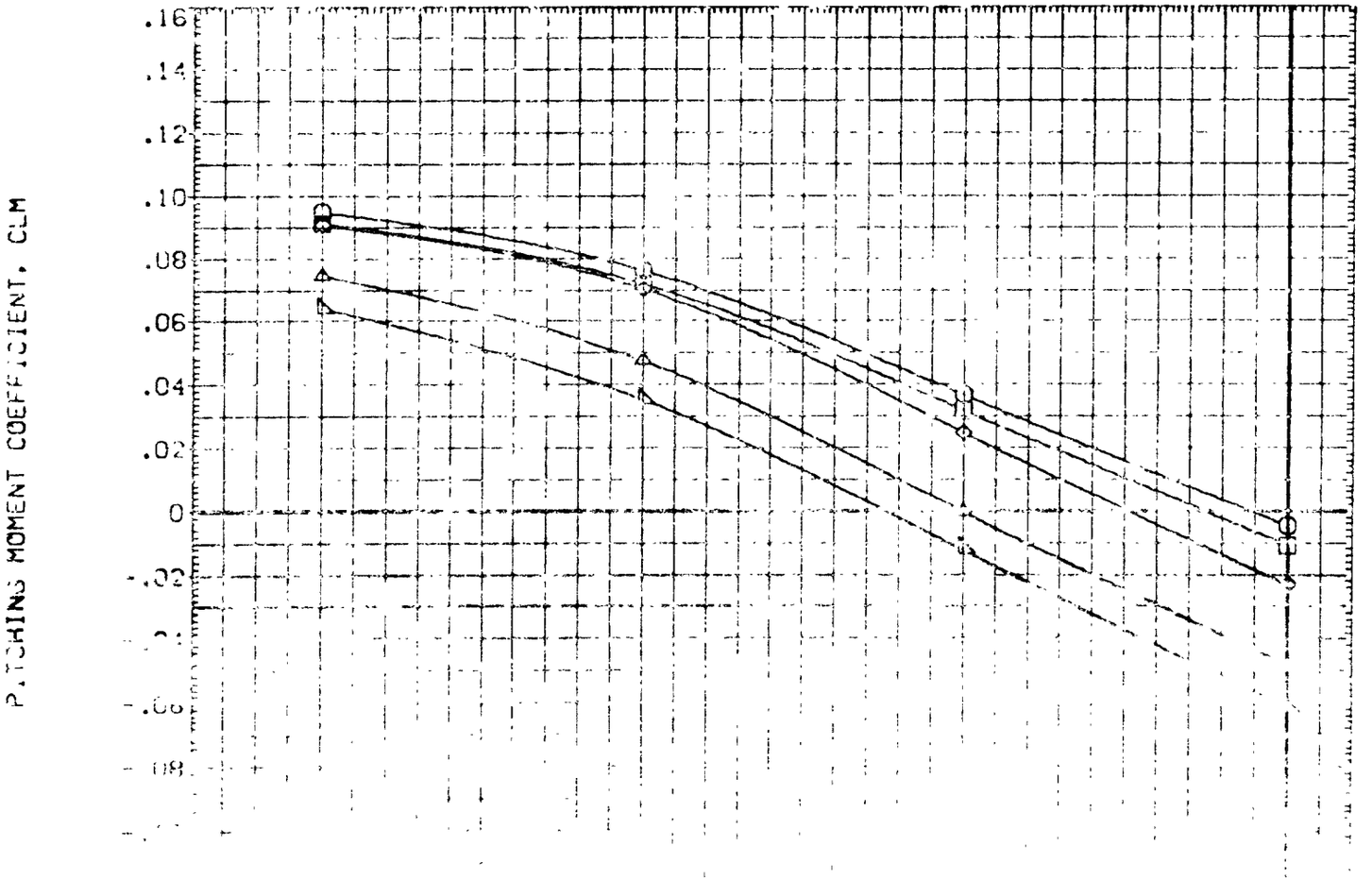


FIGURE 7. FULL SPAN ELEVON PITCH CONTROL EFFECTIVENESS

(H)MACH = 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(BH101)	□	CA-43 8-FT TPT 680 RI-0893/139 068 SPLIT ELEVON	.000
(BH102)	○	CA-43 8-FT TPT 680 RI-0890/139 068 SPLIT ELEVON	5.000
(BH103)	△	CA-43 8-FT TPT 680 RI-0890/139 068 SPLIT ELEVON	10.000
(BH104)	◇	CA-43 8-FT TPT 680 RI-0890/139 068 SPLIT ELEVON	15.000
(BH105)	▽	CA-43 8-FT TPT 680 RI-0890/139 068 SPLIT ELEVON	18.000



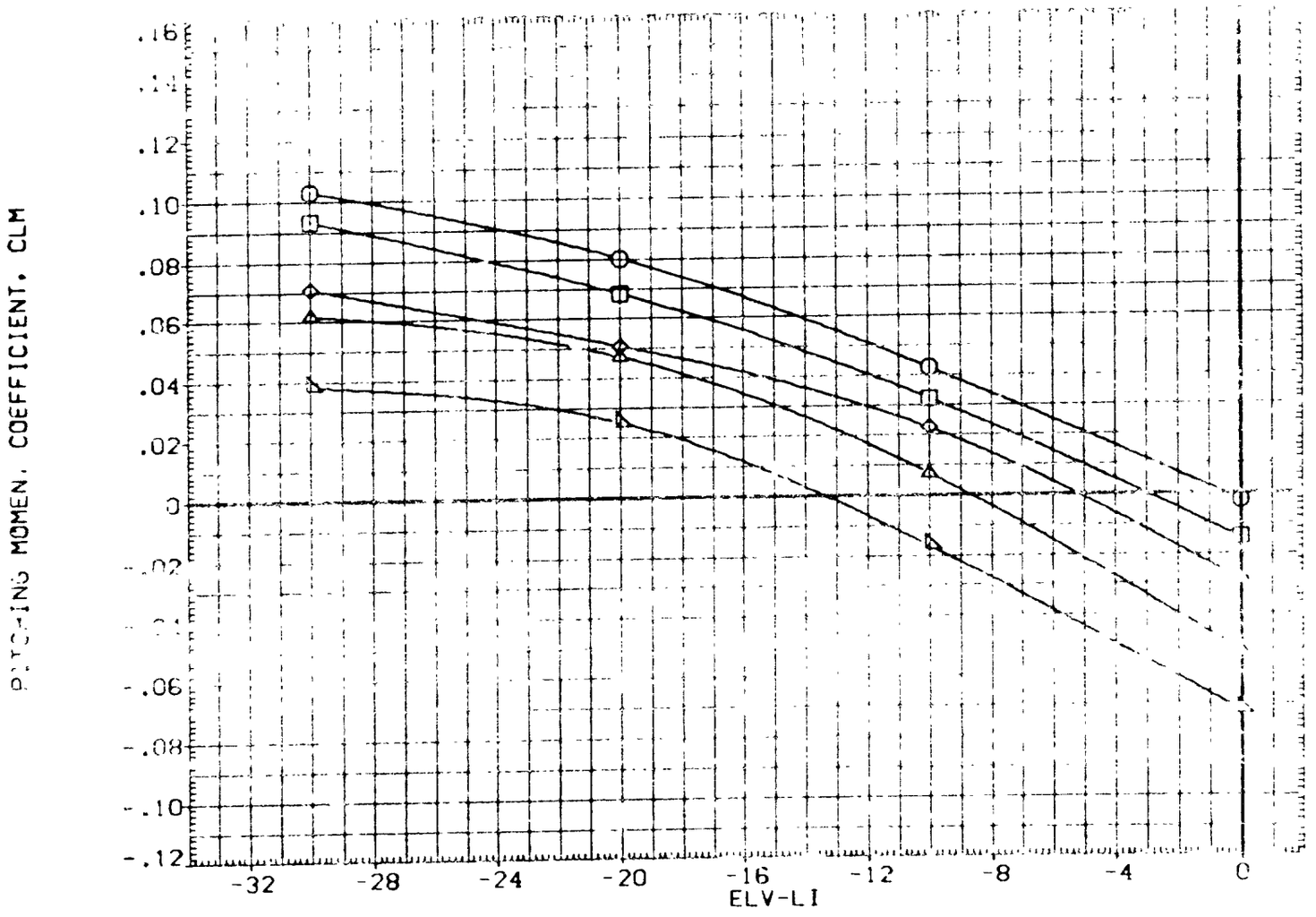


FIGURE 8. INBOARD ELEVON PITCH CONTROL EFFECTIVENESS, (OUTBOARD ELEVONS NEUTRAL)

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(0,1,101)	130 RI-08 3 SPLIT ELEVON	.600
(0,1,102)	130 RI-08 3 SPLIT ELEVON	.800
(0,1,103)	130 RI-08 3 SPLIT ELEVON	1.000
(0,1,104)	130 RI-08 3 SPLIT ELEVON	1.000
(0,1,105)	130 RI-08 3 SPLIT ELEVON	18.000

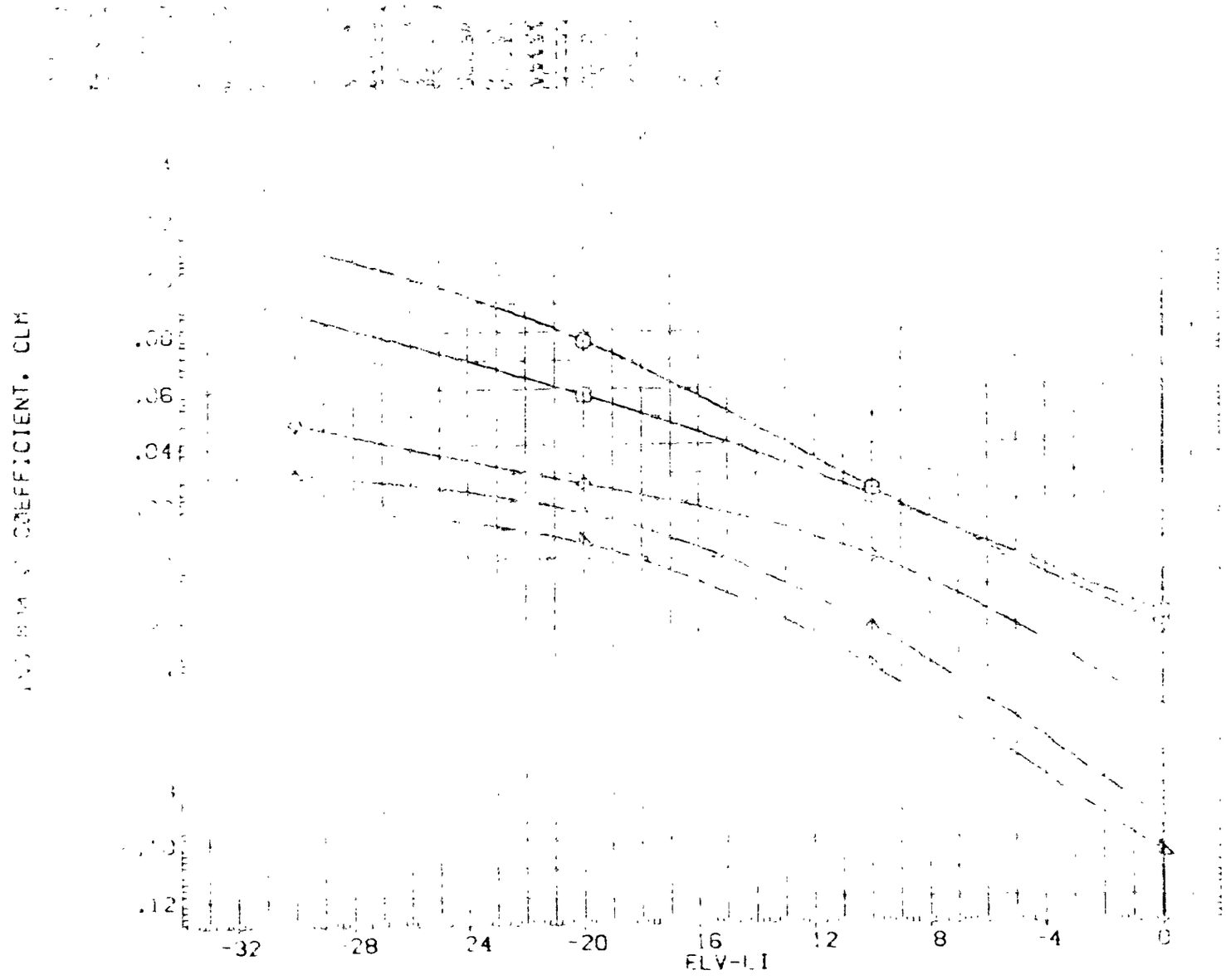


FIGURE 8. INBOARD ELEVON PITCH CONTROL EFFECTIVENESS.(OUTBOARD ELEVONS NEUTRAL)

(D)MACH = .30

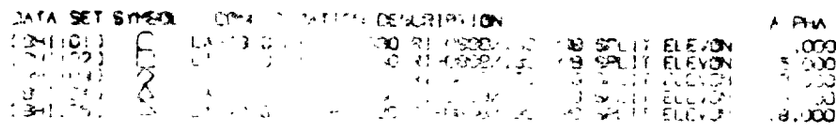

DATA SET SYMBOL
DESCRIPTION
A PHA
SPLIT ELEVON
.000
SPLIT ELEVON
5.000
SPLIT ELEVON
8.000

FIGURE 8. INBOARD ELEVON PITCH CONTROL EFFECTIVENESS, OUTBOARD ELEVONS
(F)MACH = .55

DATA SET SYMBOL
ALPHA
.000
50.000
50.000
100.000

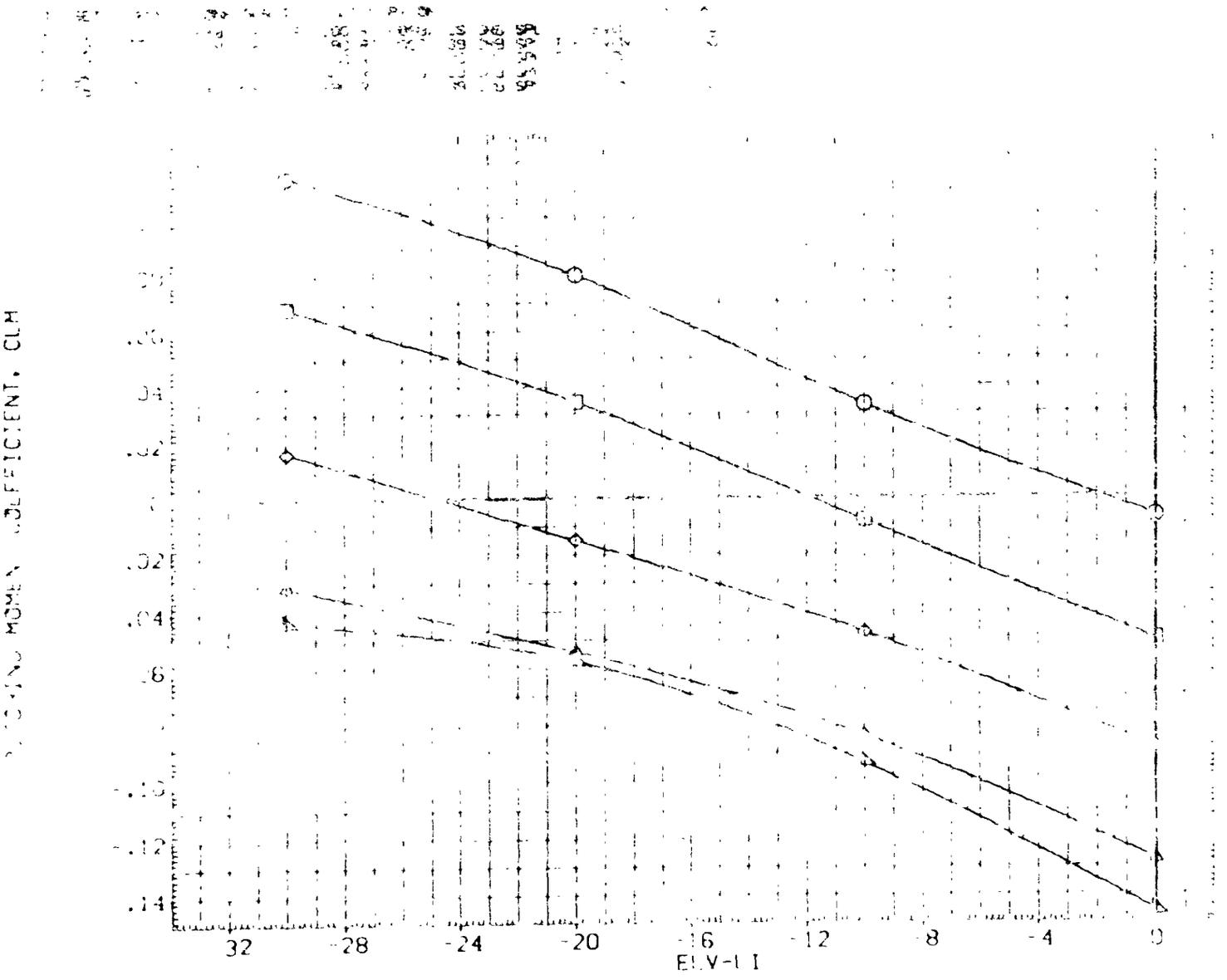
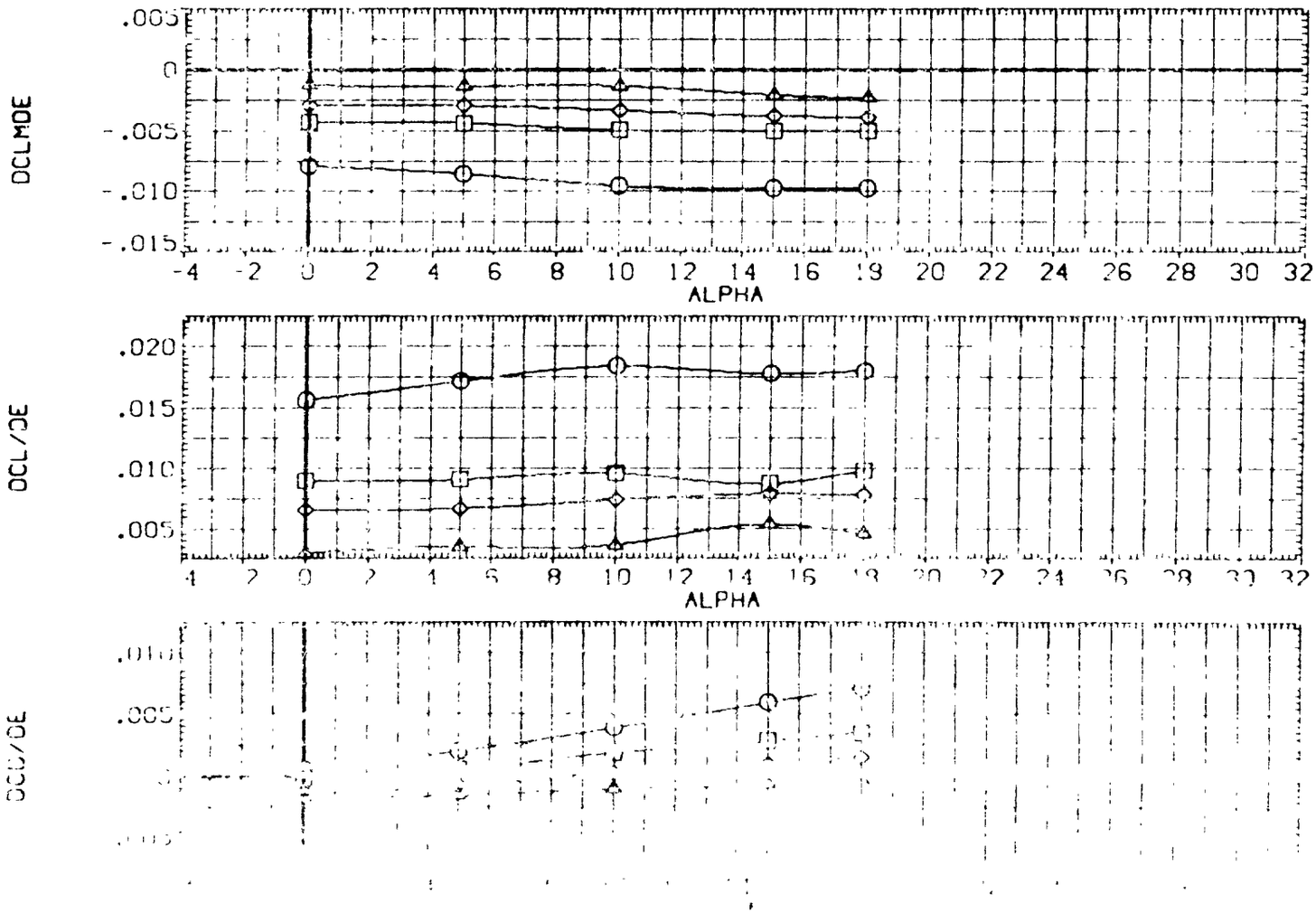


FIGURE 8. INBOARD ELEVON PITCH CONTROL EFFECTIVENESS, (OUTBOARD ELEVONS
(H)MACH - 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1001)	□	LA-48 8-FT TPT 690 RI-0858/139 GPB SPLIT ELEVON	.000	.000	.000	.000
(CH1002)	◇	LA-48 8-FT TPT 690 RI-0858/139 GPB SPLIT ELEVON	.000	-10.000	-10.000	.000
(CH1003)	△	LA-48 8-FT TPT 690 RI-0858/139 GPB SPLIT ELEVON	.000	-20.000	-20.000	.000
(CH1004)	⊗	LA-48 8-FT TPT 690 RI-0858/139 GPB SPLIT ELEVON	.000	-30.000	-30.000	.000



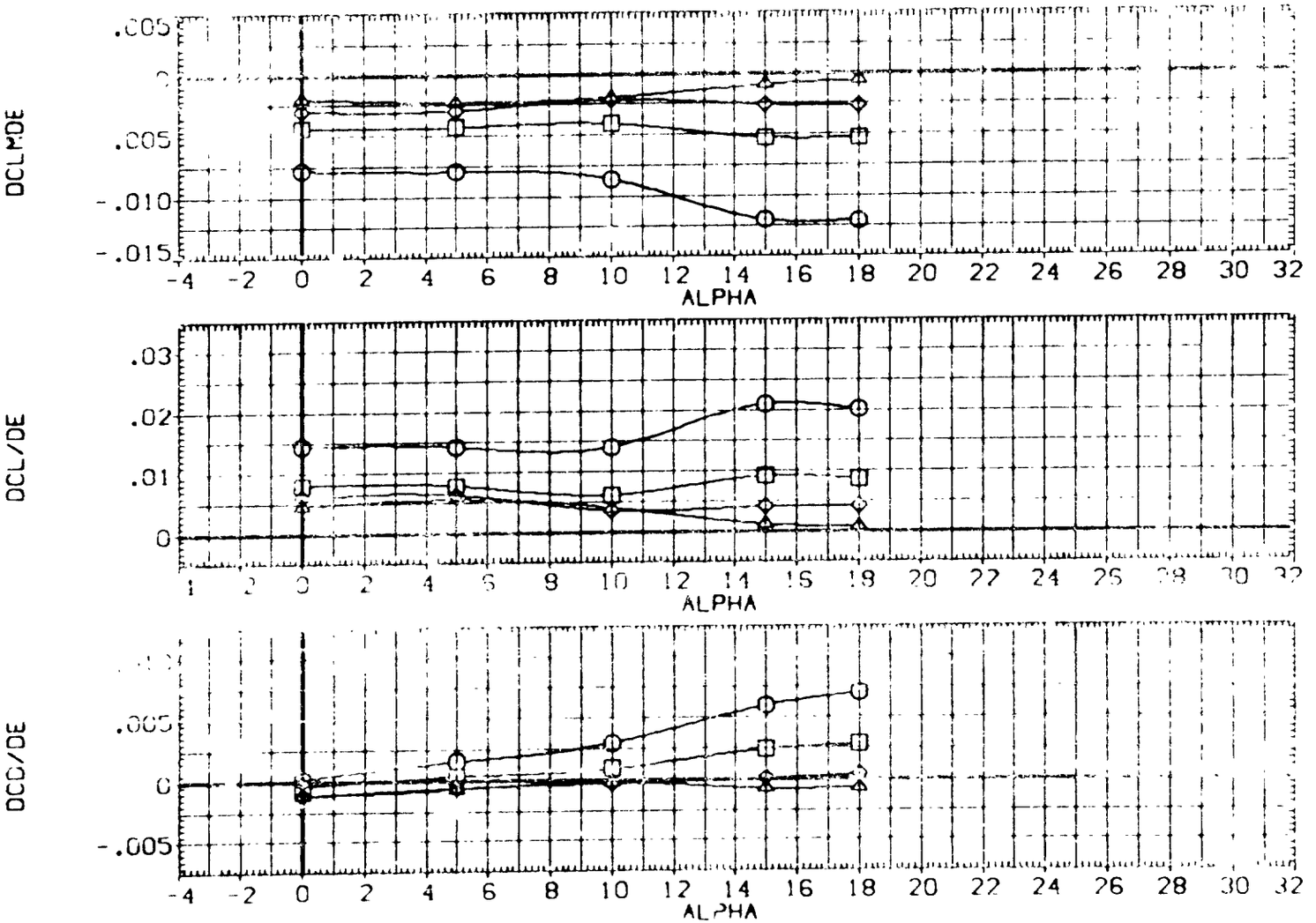
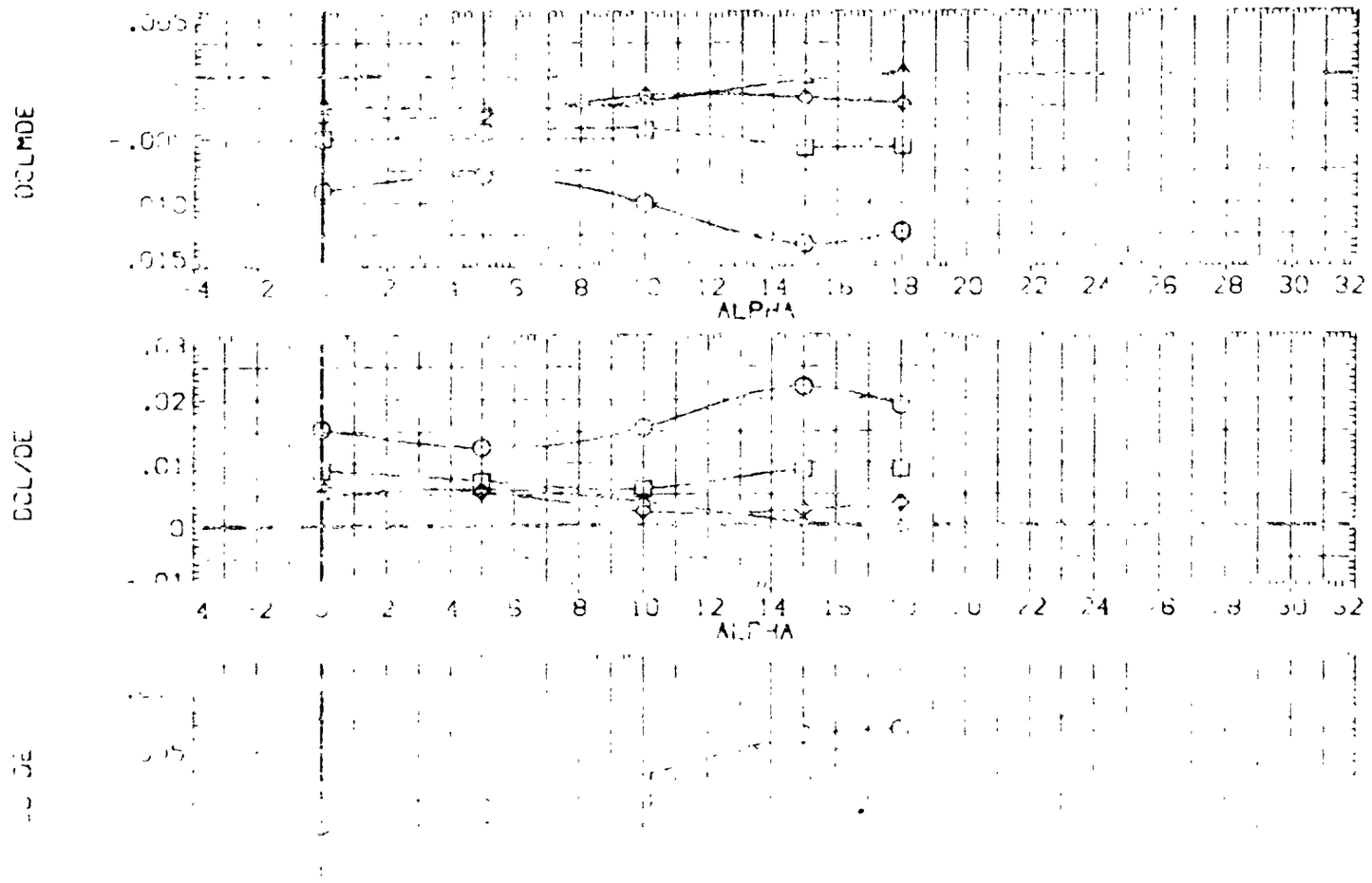


FIGURE 8. INBOARD ELEVON PITCH CONTROL EFFECTIVENESS, (OUTBOARD ELEVONS NEUTRAL)

(B)MACH = .30

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	FLV-LO	FLV-LI	FLV-RI	FLV-RO
(0,1001)		[illegible] SPLIT FLEVON	.000	.000	.000	.000
[illegible]		[illegible] SPLIT FLEVON	.000	-10.000	-10.000	.000
[illegible]		[illegible] SPLIT FLEVON	.000	-30.000	-30.000	.000
(0,1004)		[illegible] SPLIT FLEVON	.000	-30.000	-30.000	.000



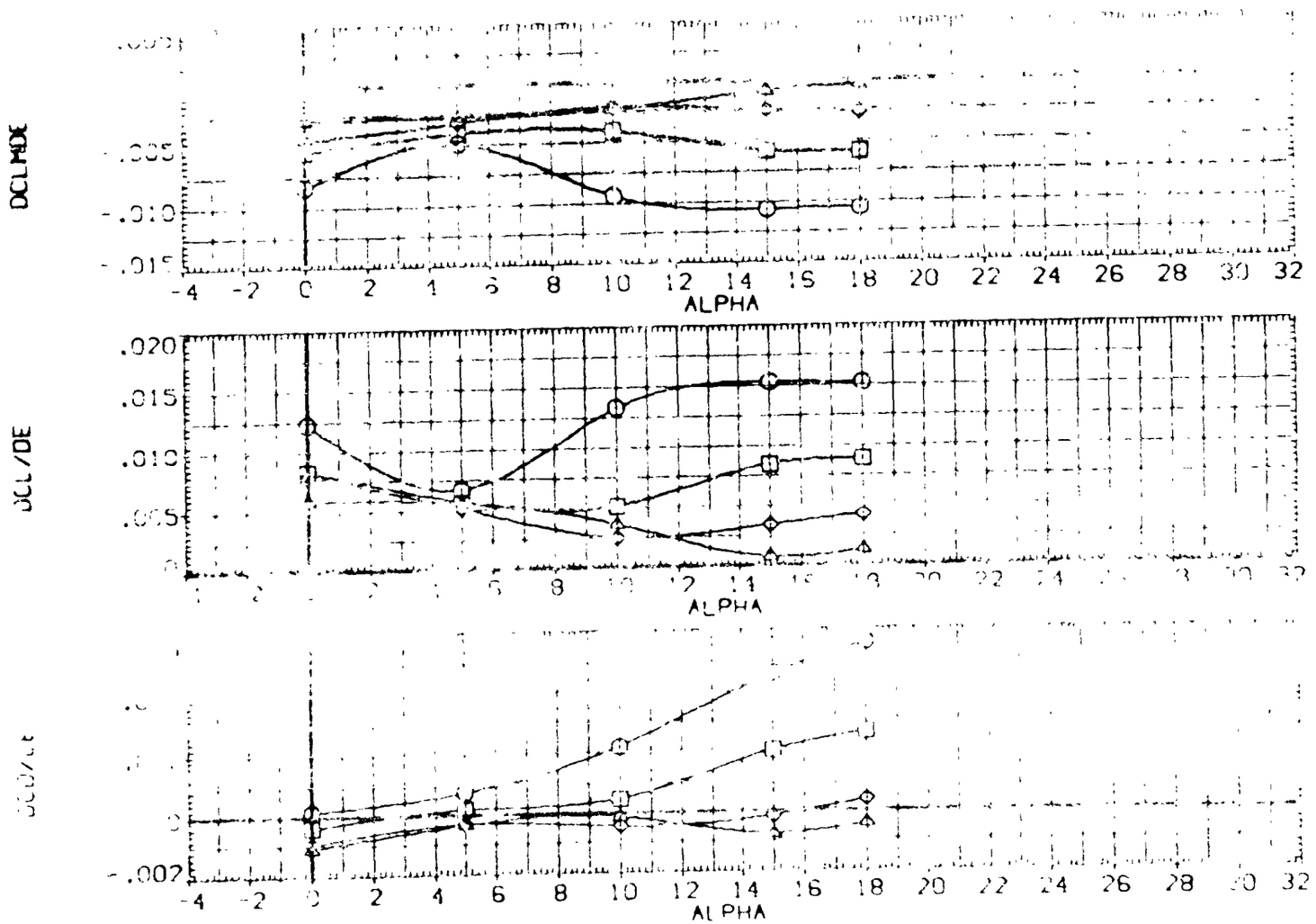
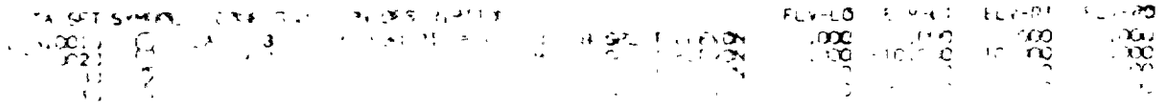
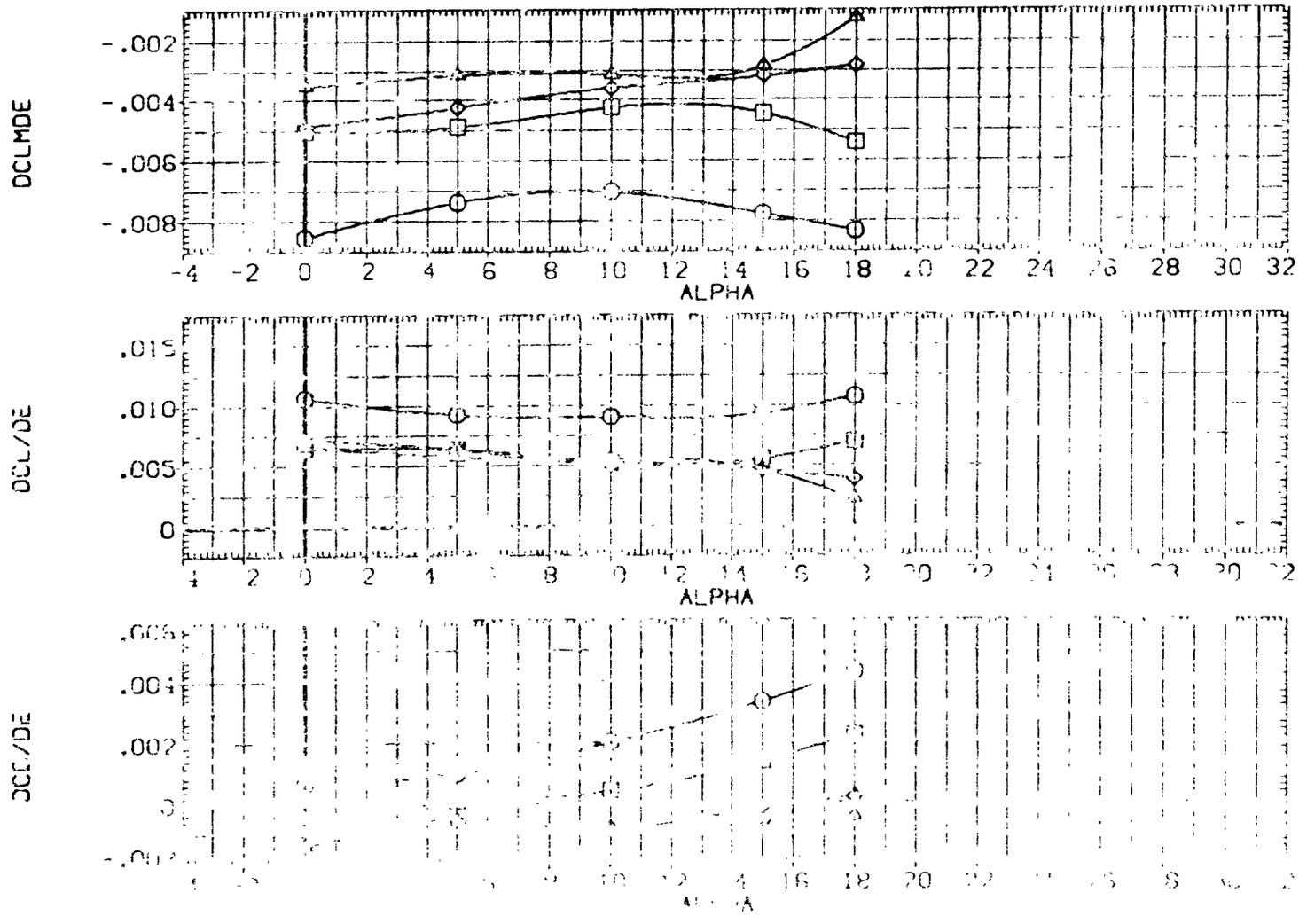


FIGURE 8. INBOARD ELEVON PITCH CONTROL EFFECTIVENESS, (OUTBOARD ELEVONS [illegible])

(D)MACH = .90



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1001)	○	LA-48 8-FT TPT 680 RI-0898/139 038 SPLIT ELEVON	.000	.000	.000	.000
(CH1002)	□	LA-48 8-FT TPT 680 RI-0898/139 038 SPLIT ELEVON	.000	-10.000	-10.000	.000
(CH1003)	◇	LA-48 8-FT TPT 680 RI-0898/139 038 SPLIT ELEVON	.000	-20.000	-20.000	.000
(CH1004)	△	LA-48 8-FT TPT 680 RI-0898/139 038 SPLIT ELEVON	.000	-30.000	-30.000	.000



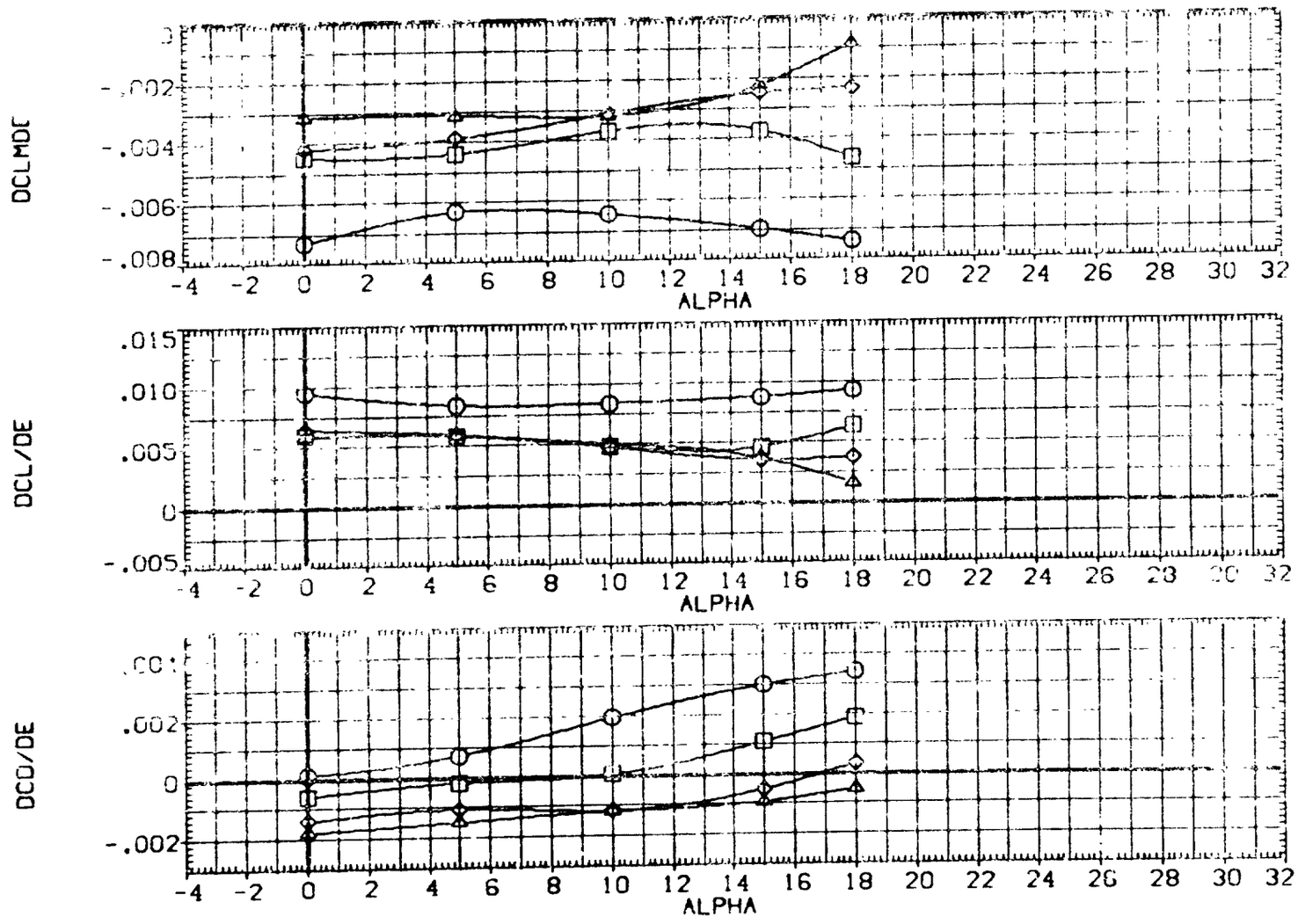
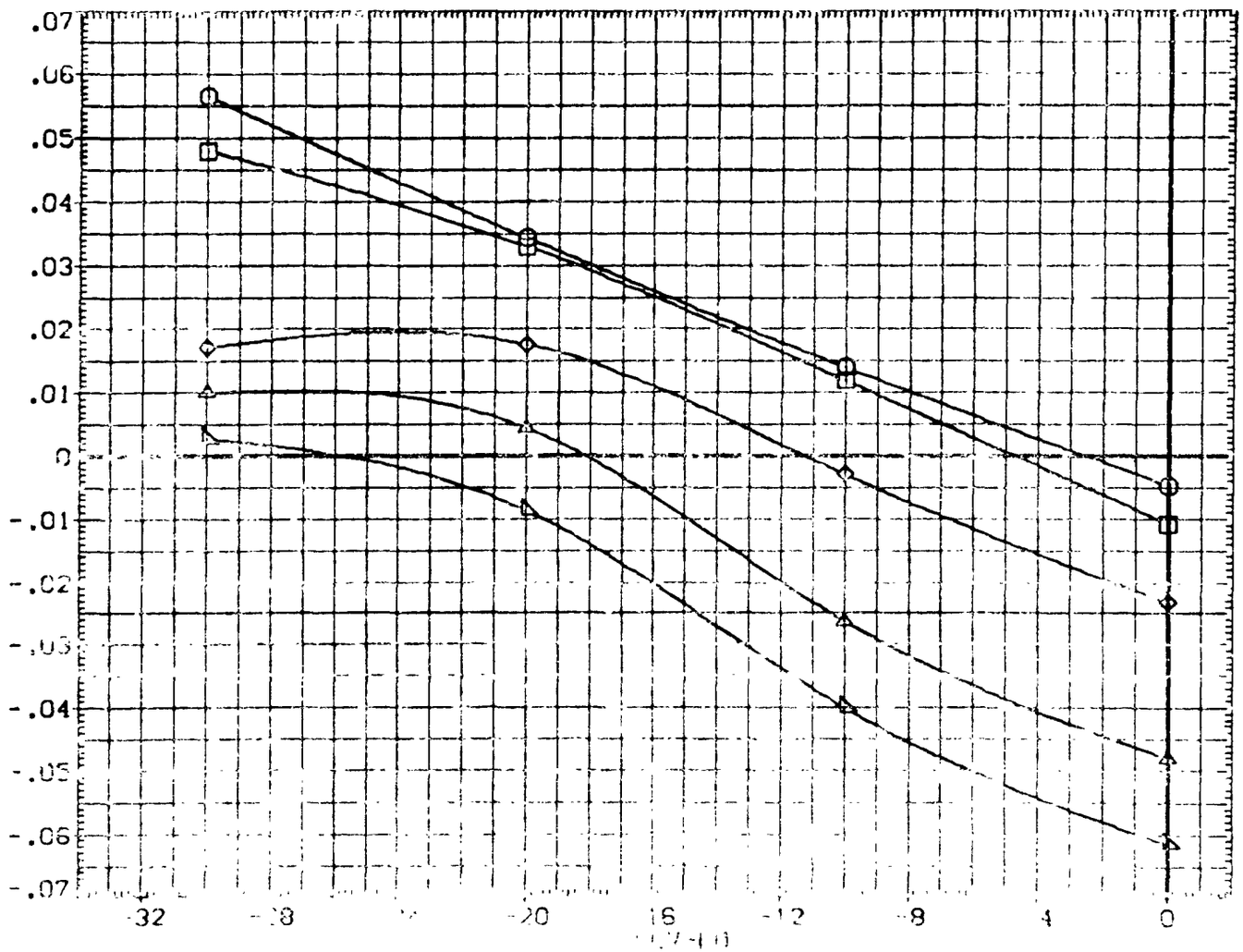


FIGURE 8. INBOARD ELEVON PITCH CONTROL EFFECTIVENESS.(OUTBOARD ELEVONS NEUTRAL)

(H)MACH = 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(BH1001)		LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000
(BH1002)		LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000
(BH1003)		LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000
(BH1004)		LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	15.000
(BH1005)		LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	18.000



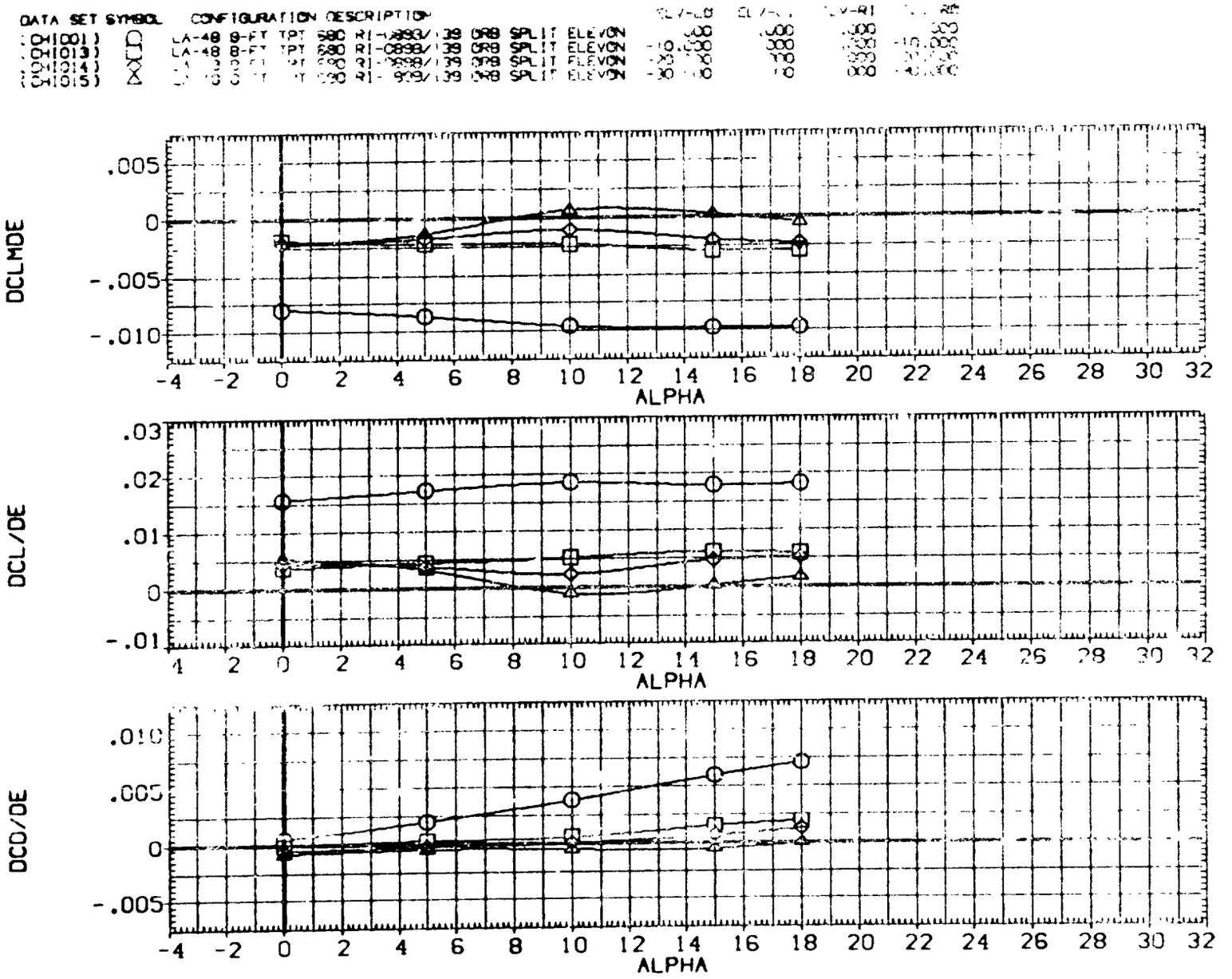
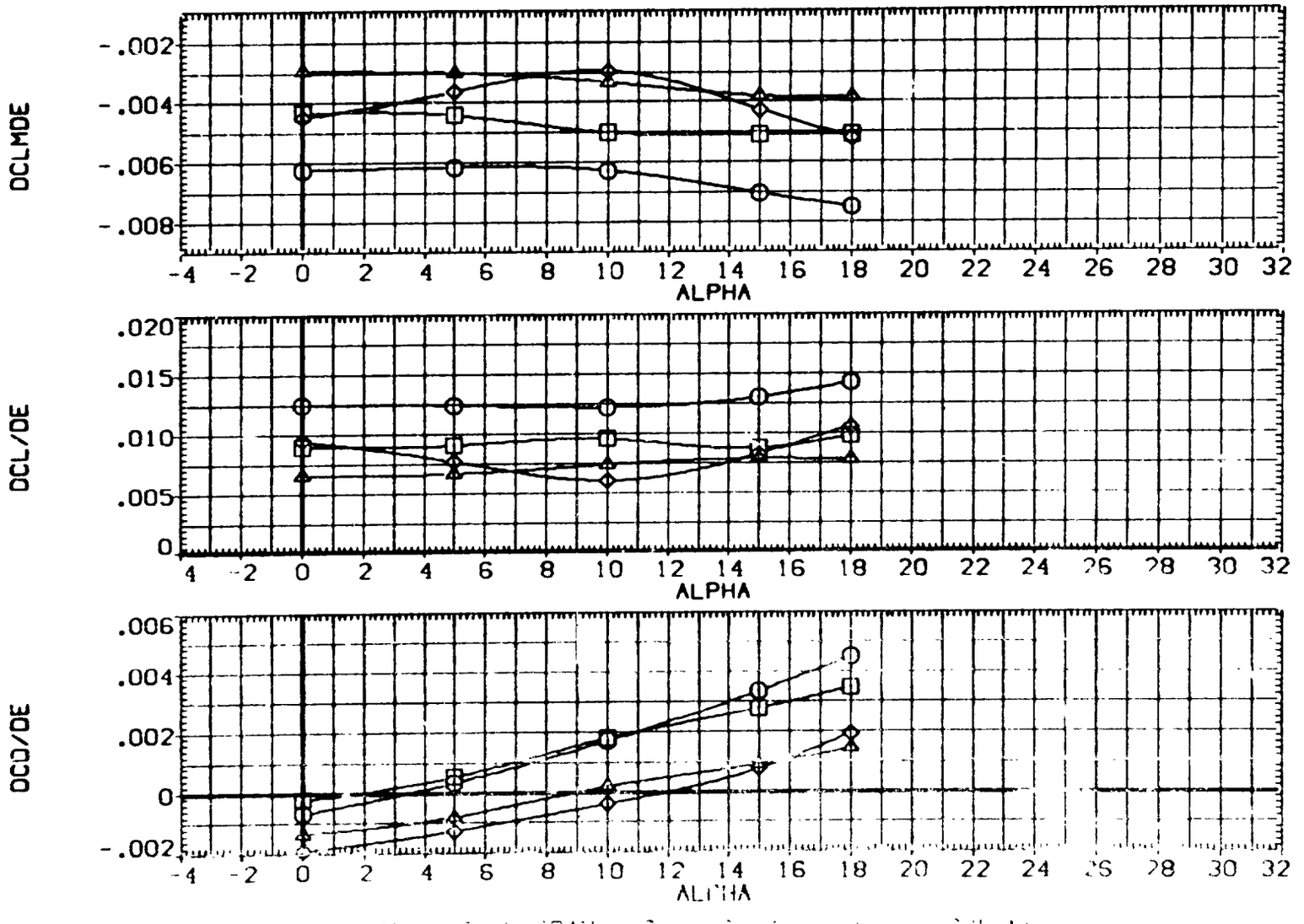


FIGURE 9. OUTBOARD ELEVON PITCH CONTROL EFFECTIVENESS, (INBOARD ELEVONS NEUTRAL)

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1005)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(CH1002)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	.000
(CH1006)	◇	LA 48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000
(CH1003)	△	LA 48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1005)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(CH1002)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	.000
(CH1006)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000
(CH1003)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000

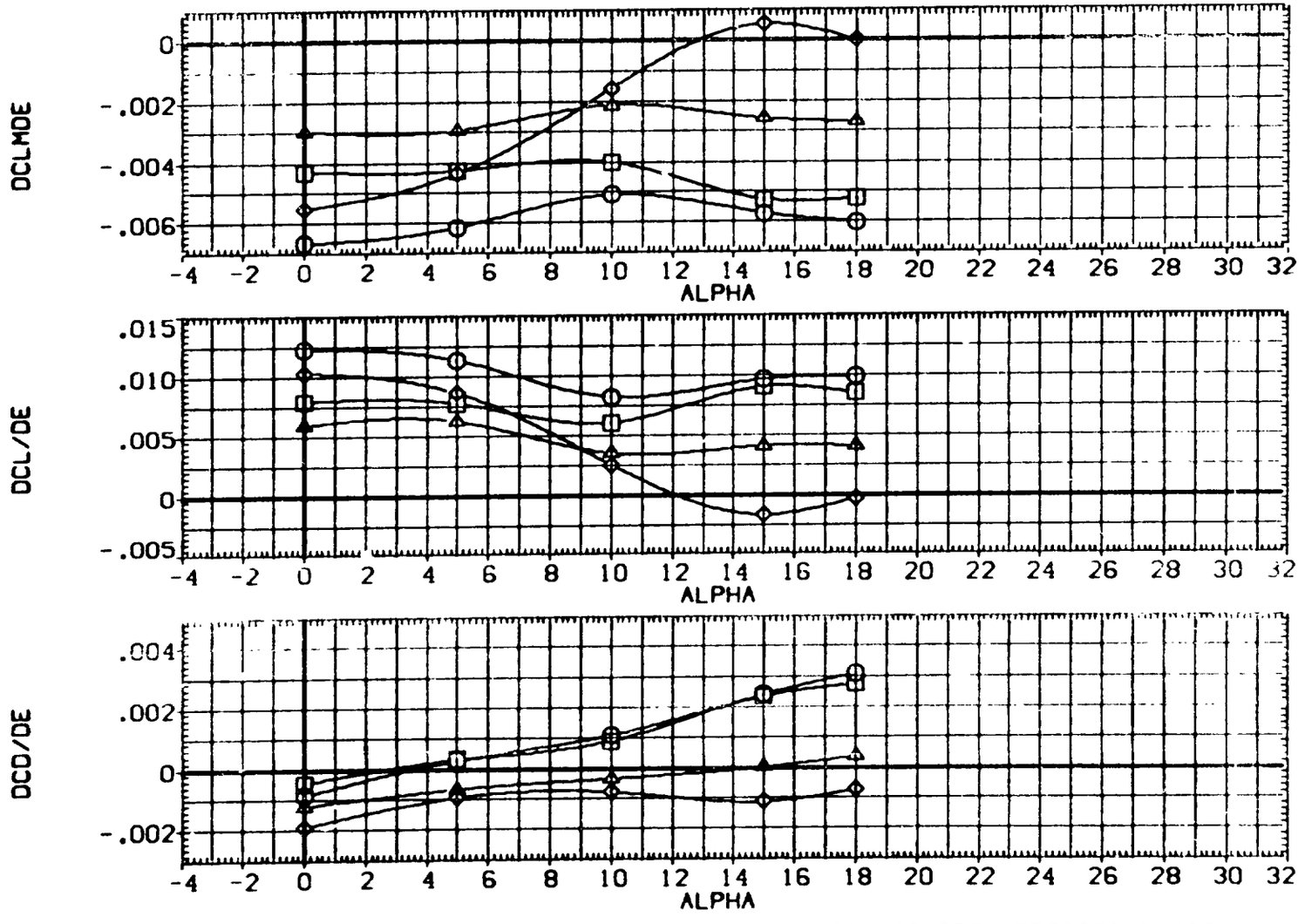
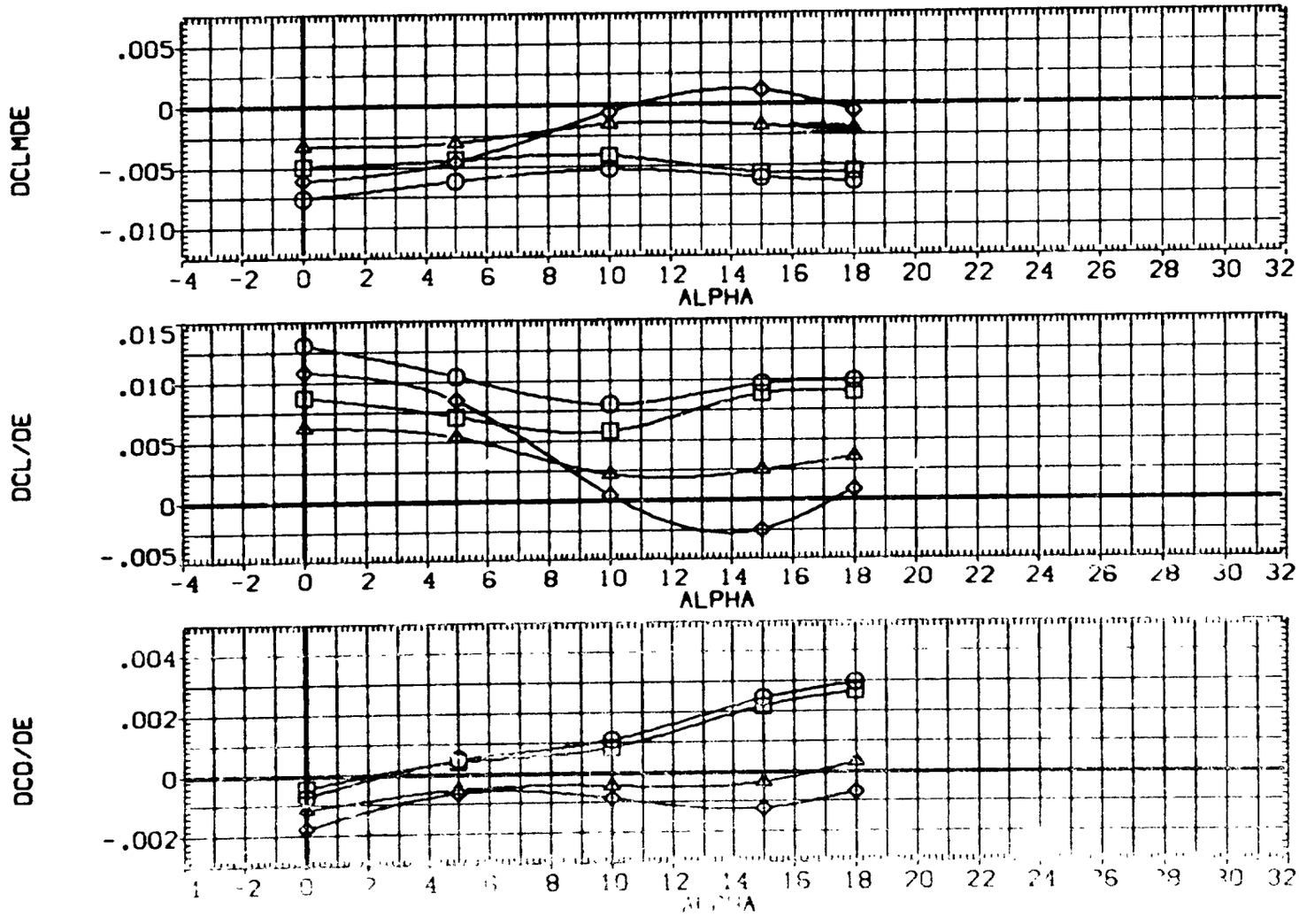


FIGURE 10. COMPARISON OF FULL SPAN AND INBOARD PITCH CONTROL EFFECTIVENESS

(8)MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1005)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(CH1002)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	.000
(CH1006)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000
(CH1003)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1005)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(CH1002)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	.000
(CH1006)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000
(CH1003)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000

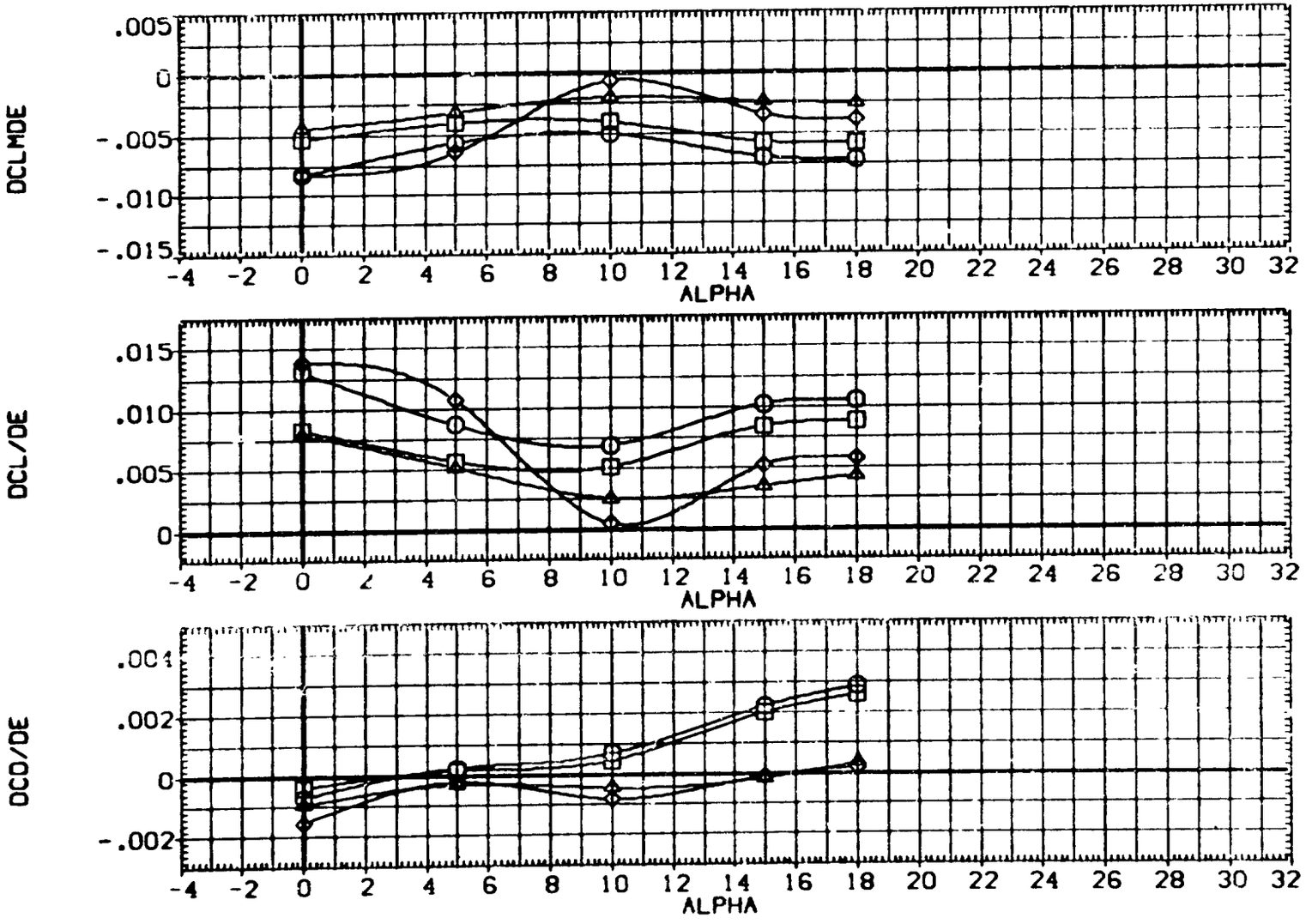
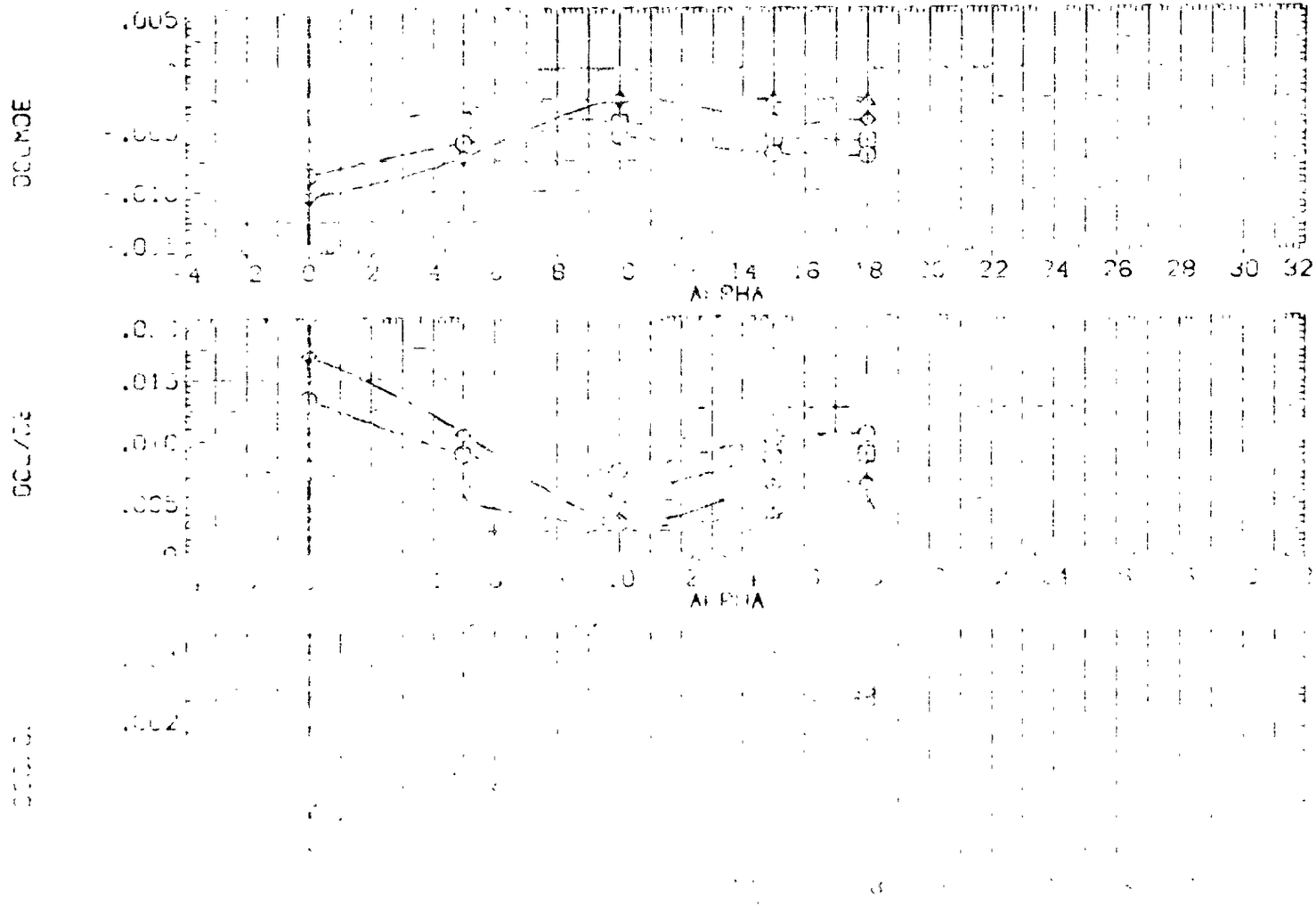


FIGURE 10. COMPARISON OF FULL SPAN AND INBOARD PITCH CONTROL EFFECTIVENESS

(D)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1005)	LA-49 6-FT TPT S90 RI-0858/1.00 0.00 SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(CH1002)	LA-49 3-FT TPT S90 RI-0858/1.00 0.00 SPLIT ELEVON	.000	-10.000	-10.000	.000
(CH1006)	LA-49 6-FT TPT S90 RI-0858/1.00 0.00 SPLIT ELEVON	.000	-20.000	20.000	.000
(CH1003)	LA-49 6-FT TPT S90 RI-0858/1.00 0.00 SPLIT ELEVON	.000	-20.000	20.000	.000



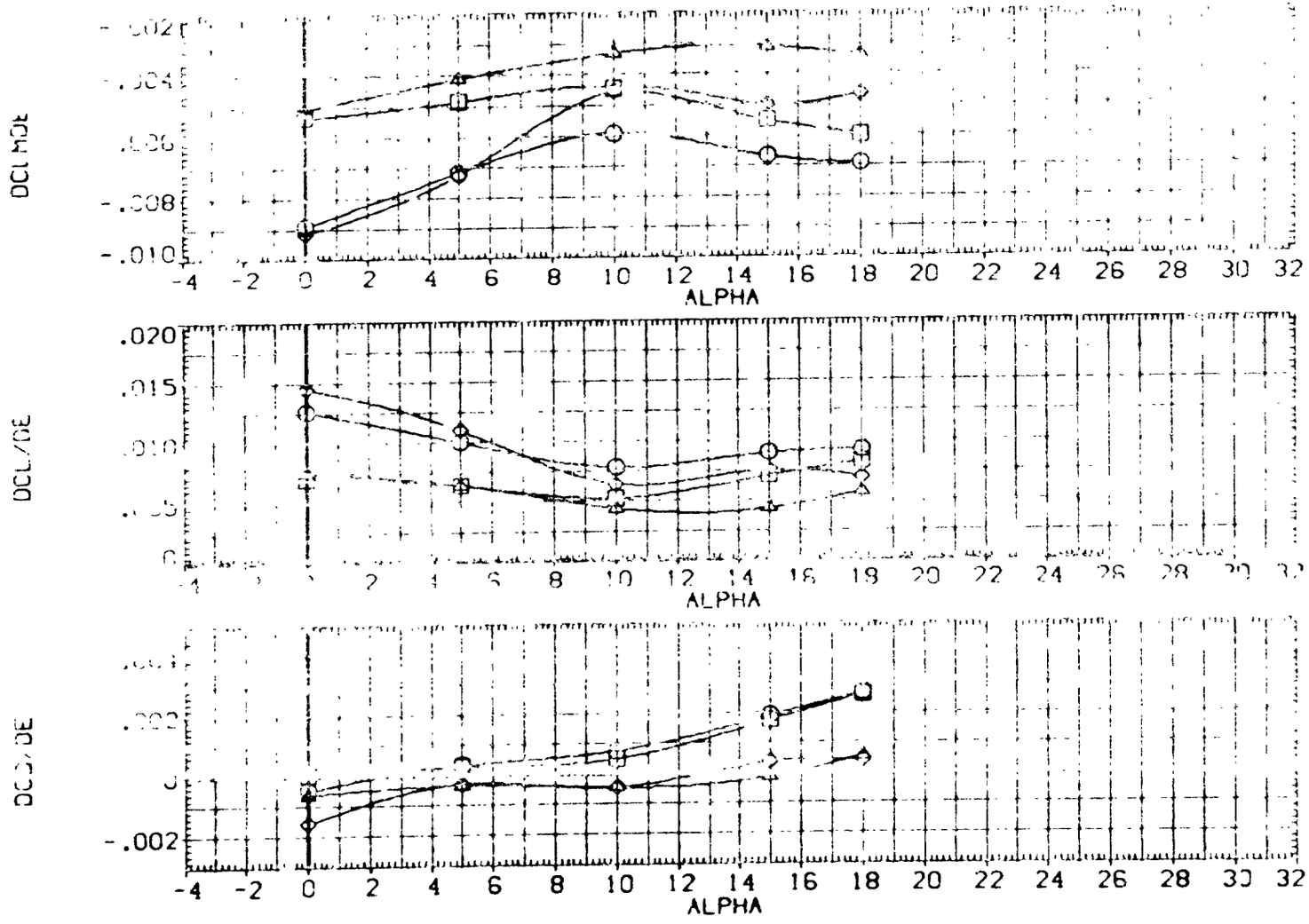
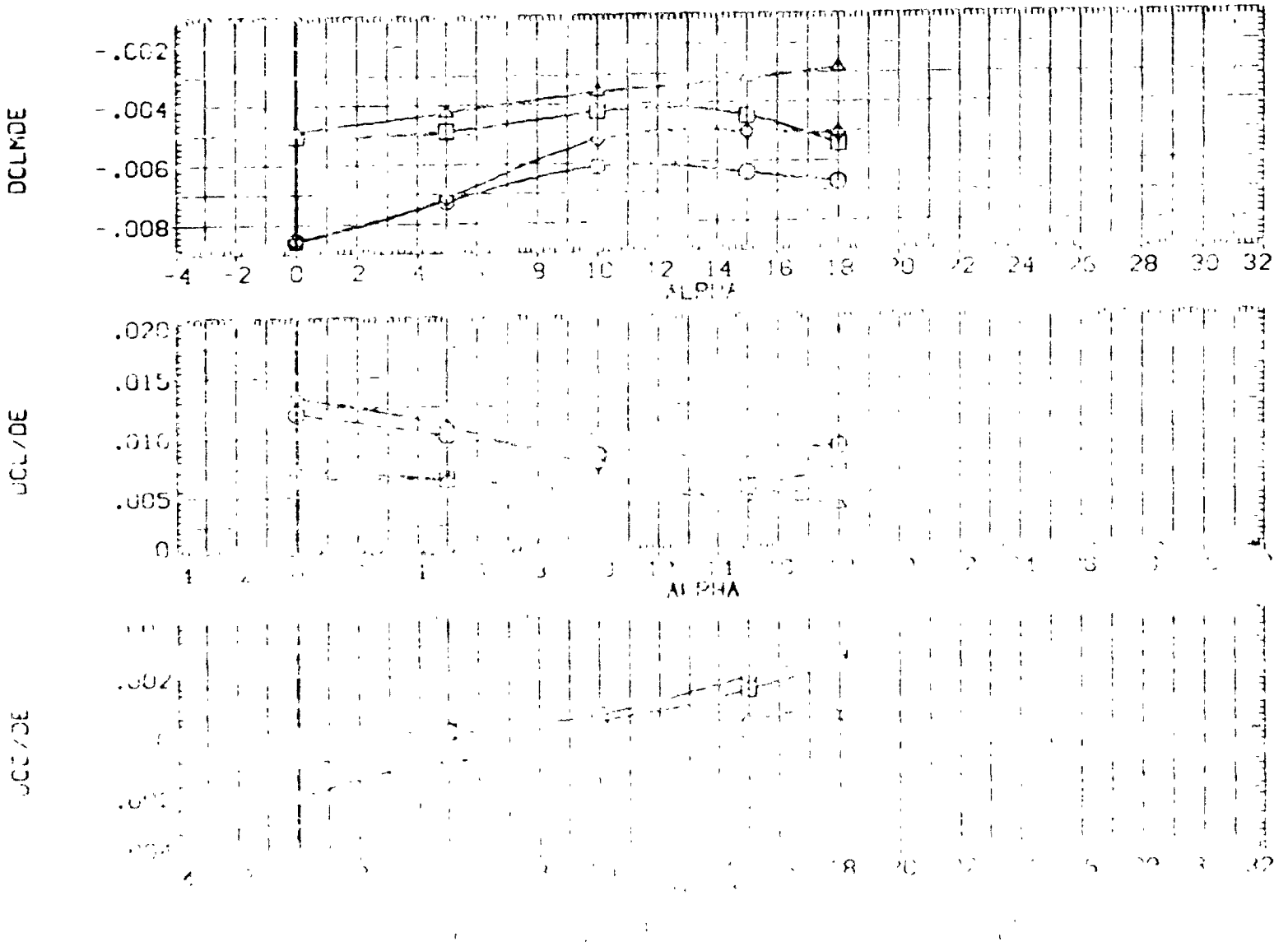


FIGURE 10. COMPARISON OF FULL SPAN AND INBOARD PITCH CONTROL EFFECTIVENESS

(F)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1005)	LA-48 8-FT TPT 280 RI-0898/133 098 SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(CH1002)	LA-48 8-FT TPT 280 RI-0898/139 098 SPLIT ELEVON	.000	-10.000	-10.000	.000
(CH1006)	[illegible]	30.000	-10.000	30.000	-30.000
(CH1003)	[illegible]	.000	20.000	20.000	.000



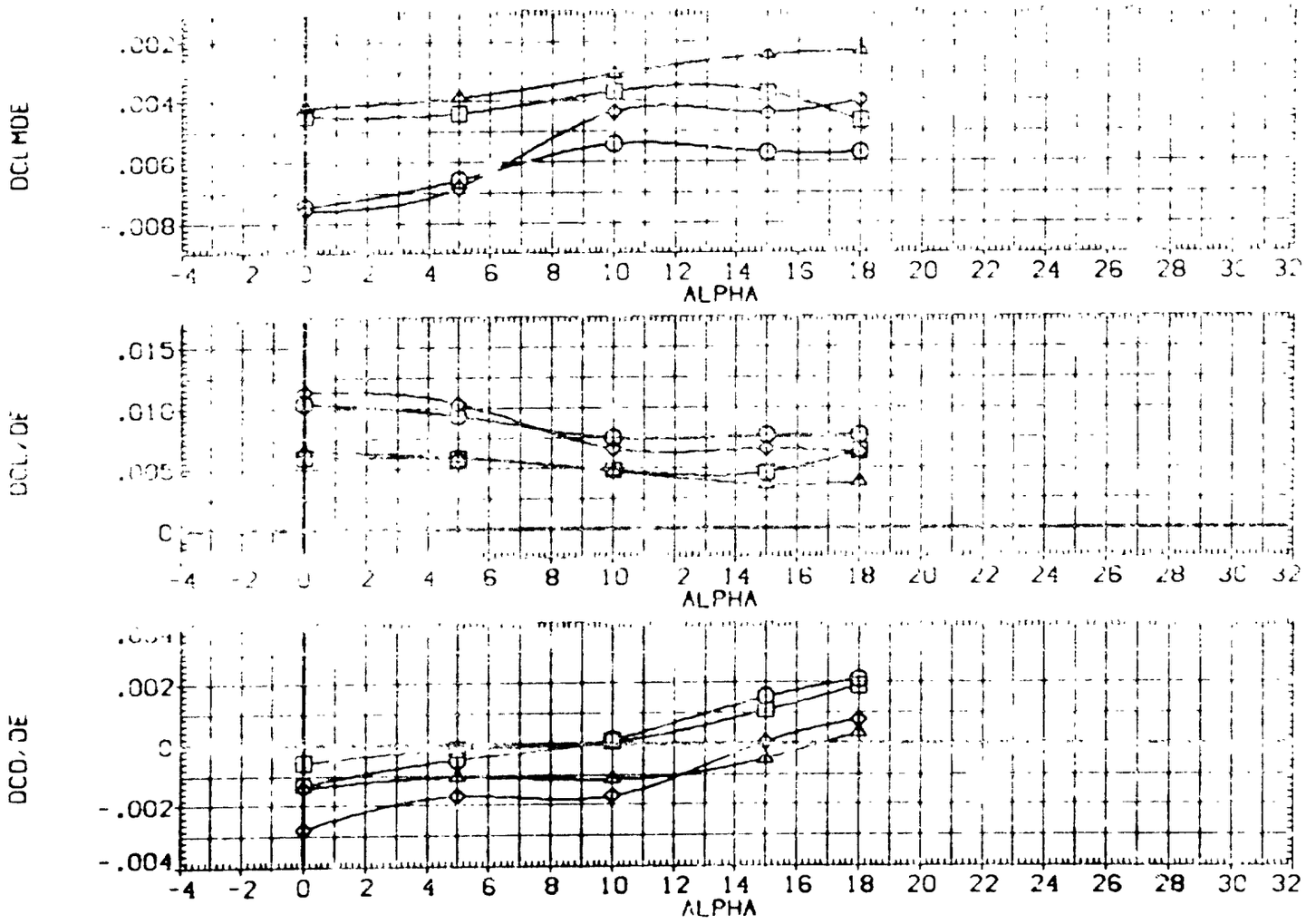
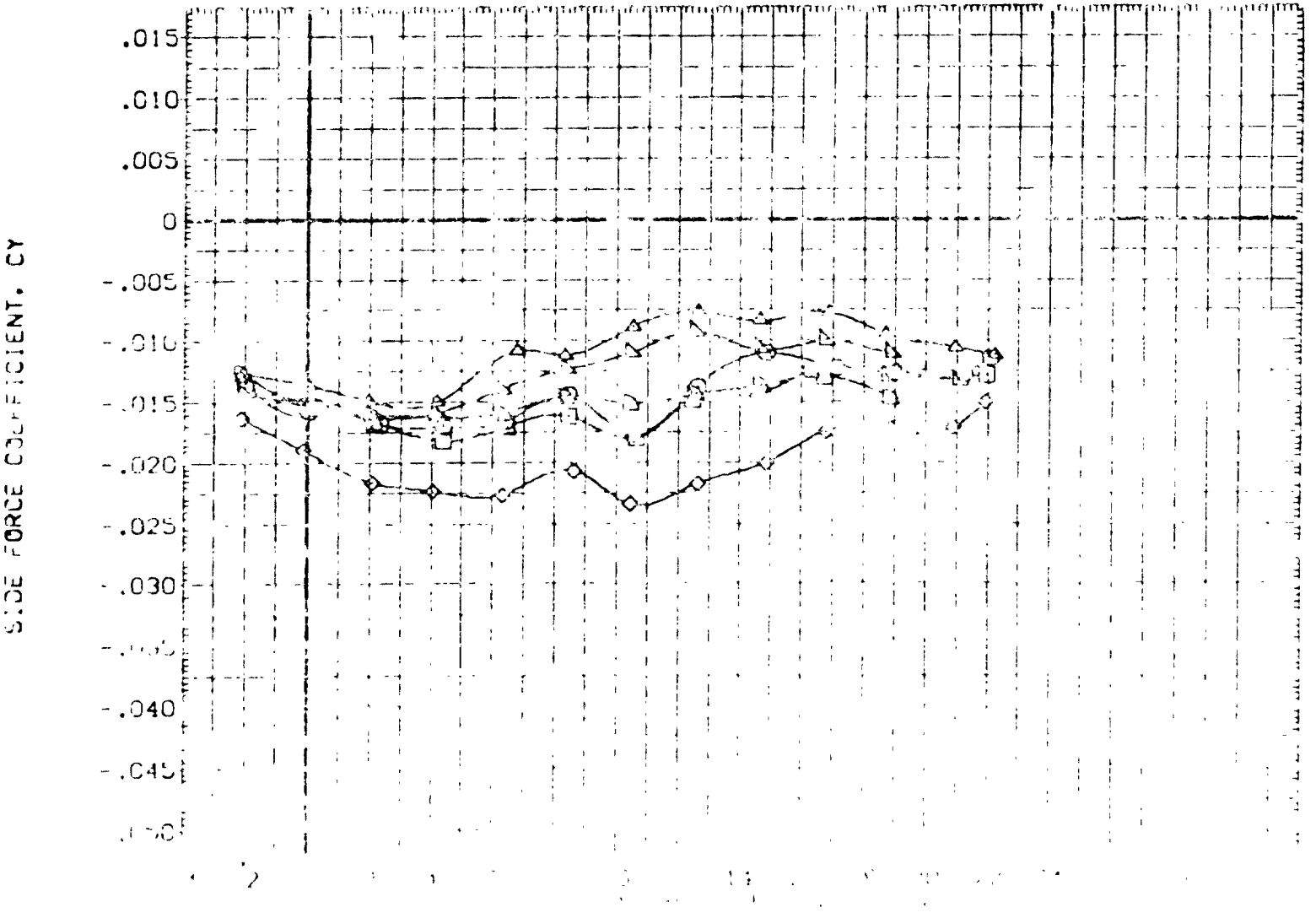


FIGURE 10. COMPARISON OF FULL SPAN AND INBOARD PITCH CONTROL EFFECTIVENESS

(H)MACH = 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH|007)	□	LA-48 8-FT [illegible] 680 RI-0803/.139 088 SPLIT ELEVON	5.000	.000	.000	-5.000
[illegible]	[illegible]	[illegible]	5.000	-20.000	-20.000	-5.000
[illegible]	[illegible]	[illegible]	-10.000	-20.000	-20.000	-10.000
[illegible]	[illegible]	[illegible]	-15.000	-20.000	-20.000	-25.000
(AH|010)	◇	LA-48 8-FT [illegible] 680 RI-0803/.139 088 SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(AH|012)	▽	LA-48 8-FT [illegible] 680 RI-0803/.139 088 SPLIT ELEVON	.000	-10.000	-10.000	-20.000



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1007)	LA-48 8-FT TPT 680 RI-0898/139 0RB SPLIT ELEVON	5.000	.000	.000	5.000
(AH1008)	LA-48 8-FT TPT 680 RI-0898/139 0RB SPLIT ELEVON	5.000	-10.000	-10.000	5.000
(AH1009)	LA-48 8-FT TPT 680 RI-0898/139 0RB SPLIT ELEVON	.000	-20.000	-20.000	.000
(AH1010)	LA-48 8-FT TPT 680 RI-0898/139 0RB SPLIT ELEVON	-15.000	-30.000	-30.000	-15.000
(AH1011)	LA-48 8-FT TPT 680 RI-0898/139 0RB SPLIT ELEVON	-10.000	-20.000	-20.000	-10.000
(AH1012)	LA-48 8-FT TPT 680 RI-0898/139 0RB SPLIT ELEVON	.000	-10.000	-10.000	.000

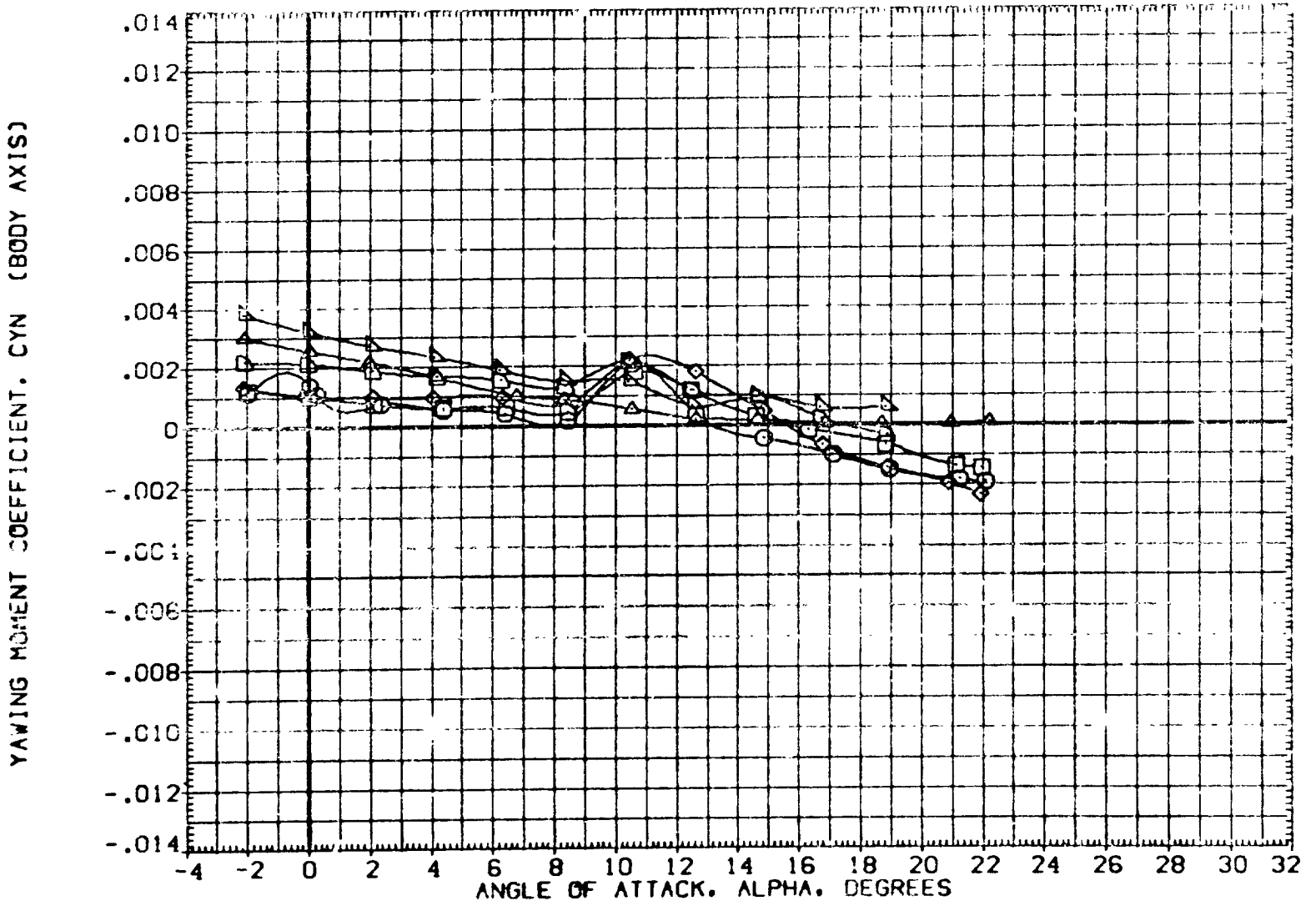
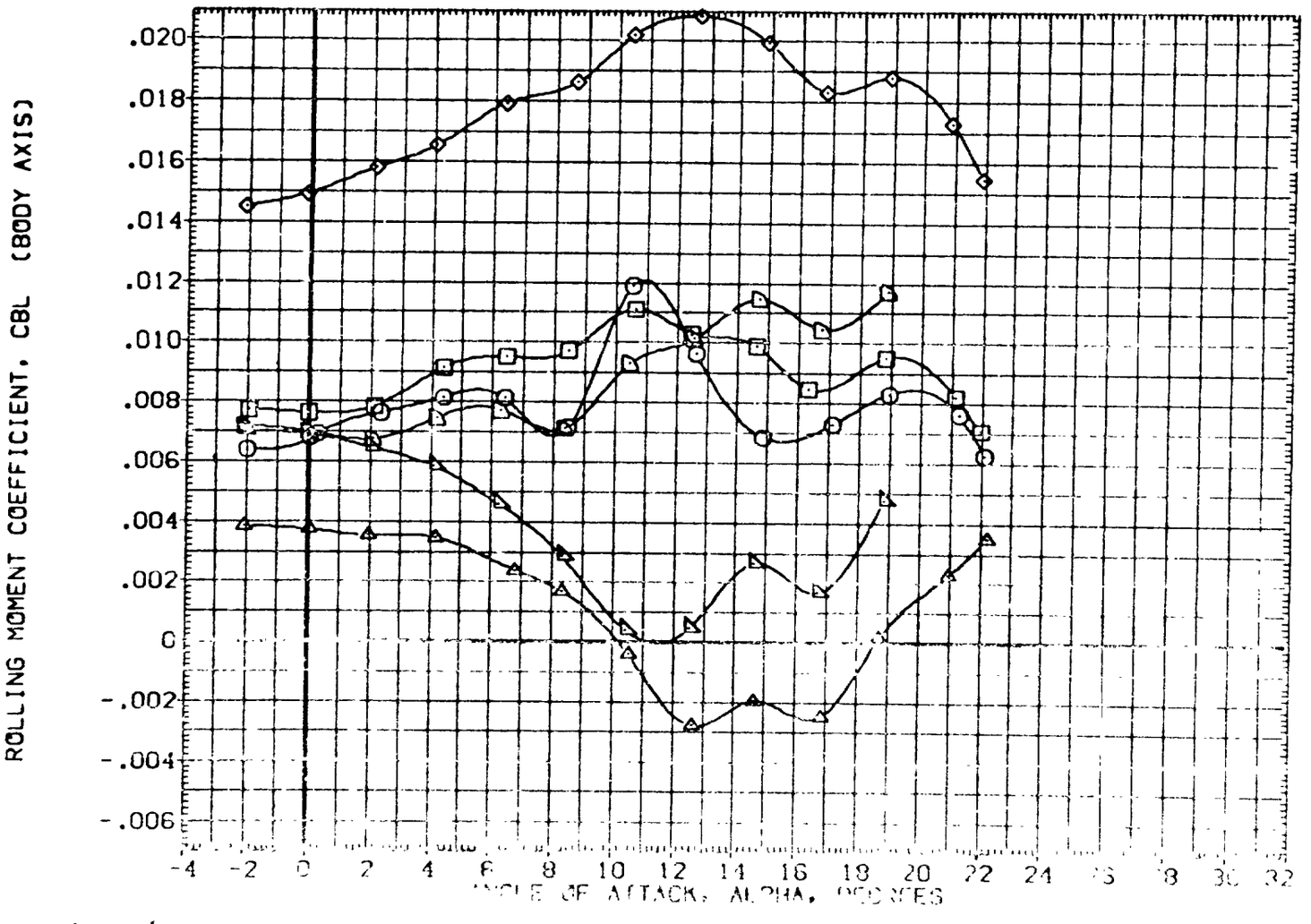


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1007)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	.000	.000	-5.000
(AH1008)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	-20.000	20.000	-5.000
(AH1009)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000	-20.000	-20.000	-10.000
(AH1010)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(AH1011)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(AH1012)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	-20.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1007)	□	LA-48 8-FT TPT 680 RI-0698/139 048 SPLIT ELEVON	5.000	.000	.000	-5.000
(AH1008)	◇	LA-48 8-FT TPT 680 RI-0698/139 048 SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(AH1009)	△	LA-48 8-FT TPT 680 RI-0698/139 048 SPLIT ELEVON	10.000	-20.000	-20.000	-10.000
(AH1010)	▽	LA-48 8-FT TPT 680 RI-0698/139 048 SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(AH1011)	○	LA-48 8-FT TPT 680 RI-0698/139 048 SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(AH1012)	▷	LA-48 8-FT TPT 680 RI-0698/139 048 SPLIT ELEVON	.000	-10.000	-10.000	-20.000

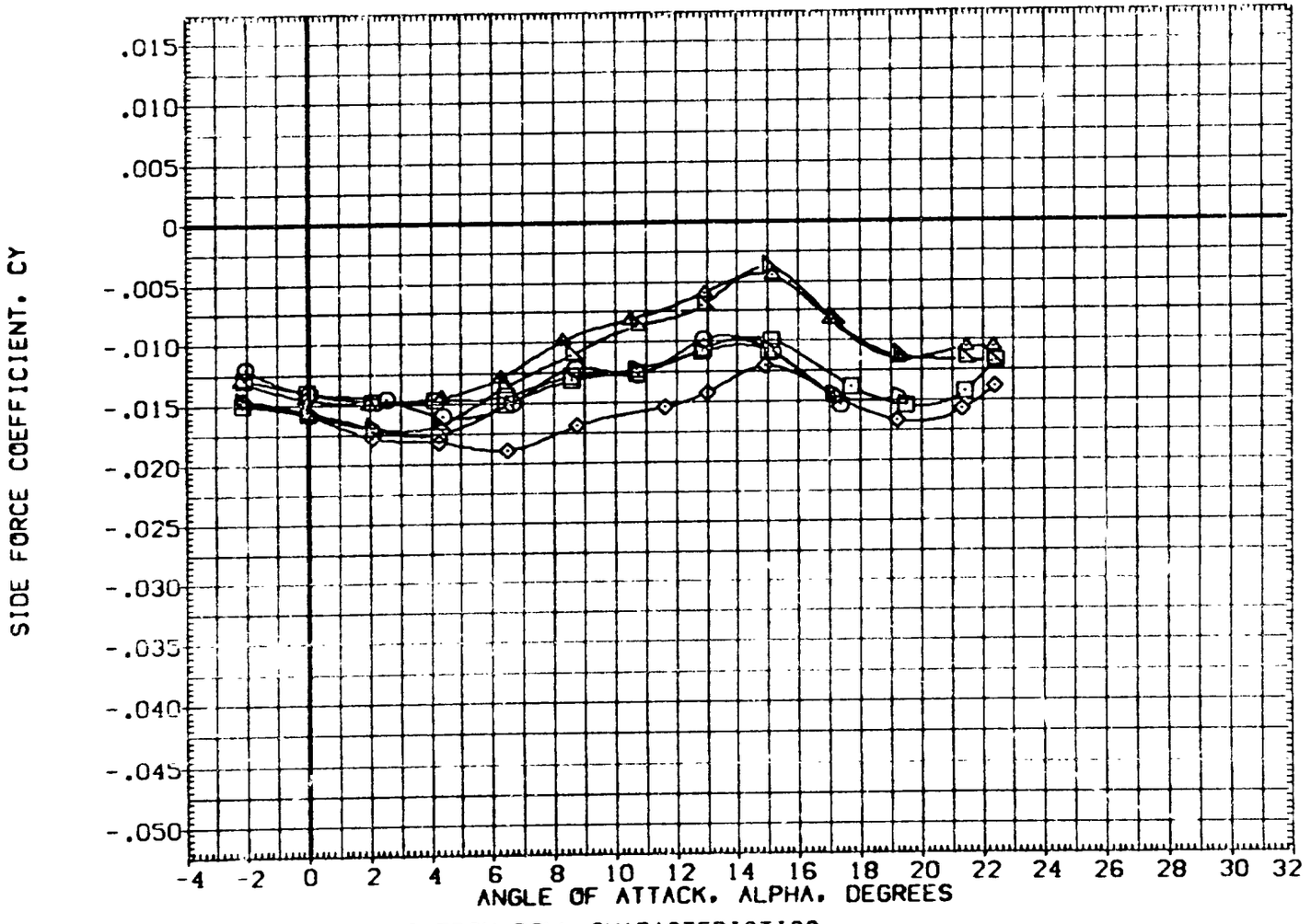
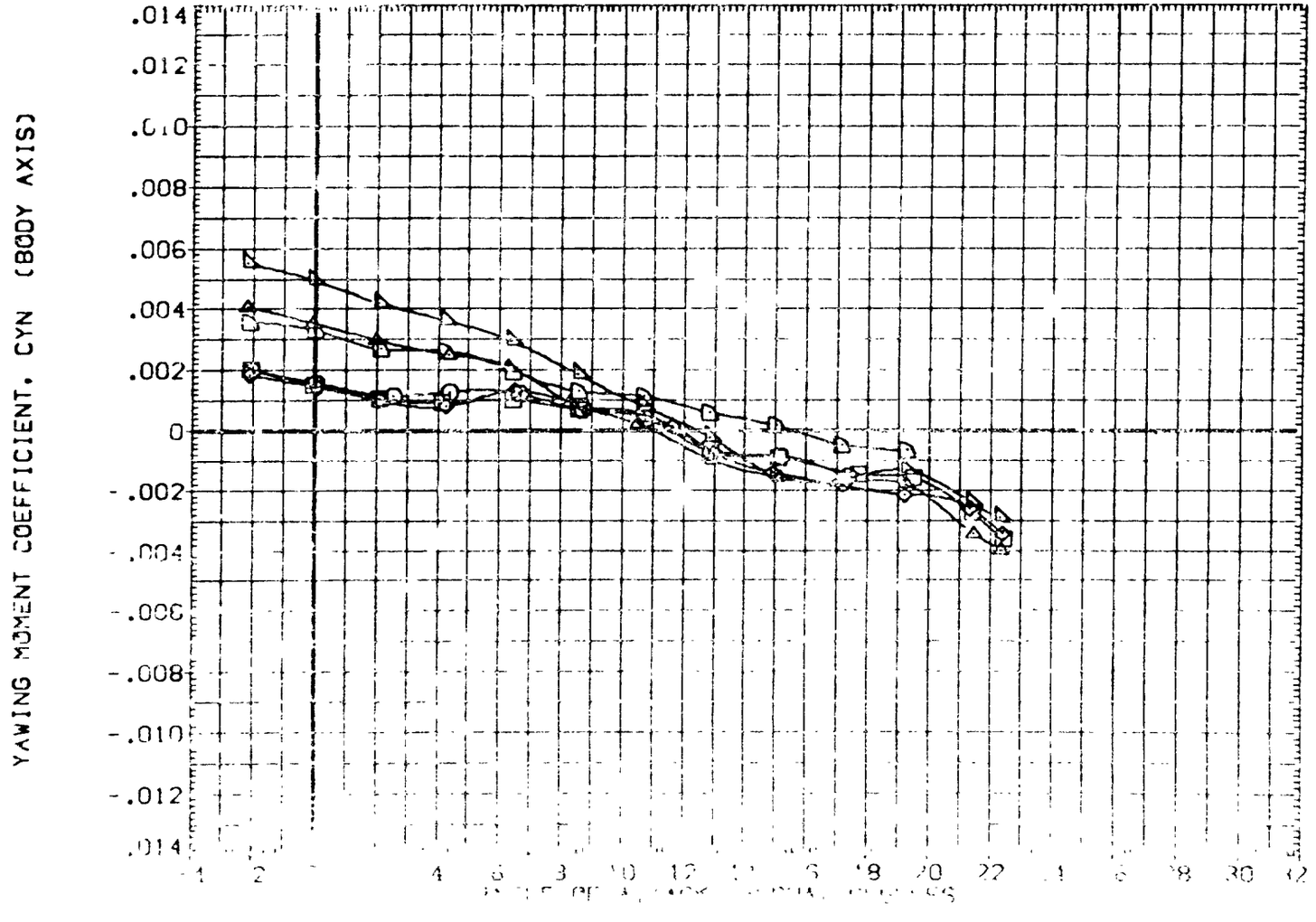


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1007)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	.000	.000	-5.000
(AH1008)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(AH1009)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000	-20.000	-20.000	-10.000
(AH1010)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(AH1011)	▽	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(AH1012)	▷	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	-20.000



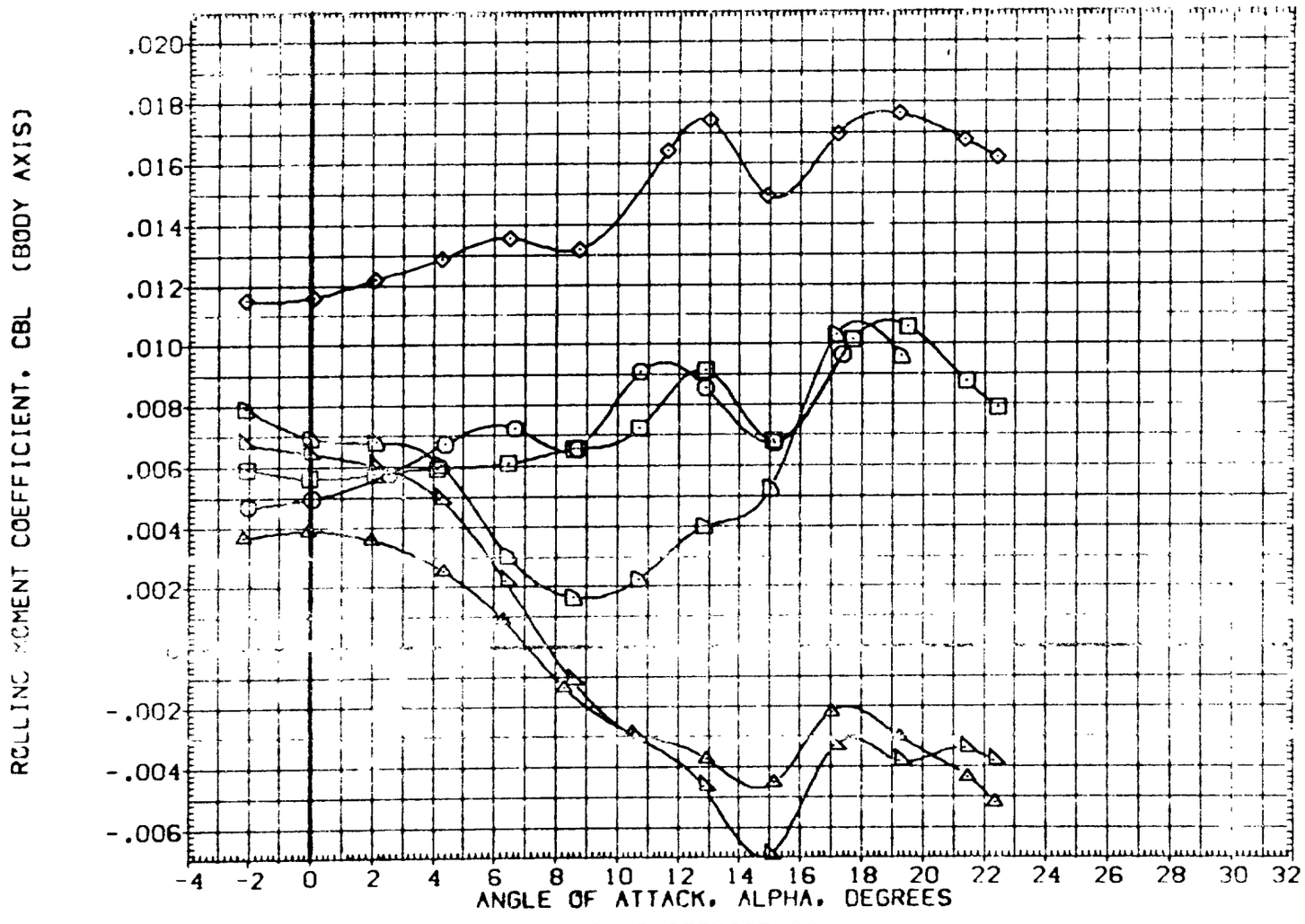


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(B)MACH = .80

DATA SET SYMBOL
CONFIGURATION DESCRIPTION
ELV-LO
ELV-LI
ELV-RI
ELV-RO
.015
.010
.005
0
-.005
-.010
-.015
-.020
-.025
-.030

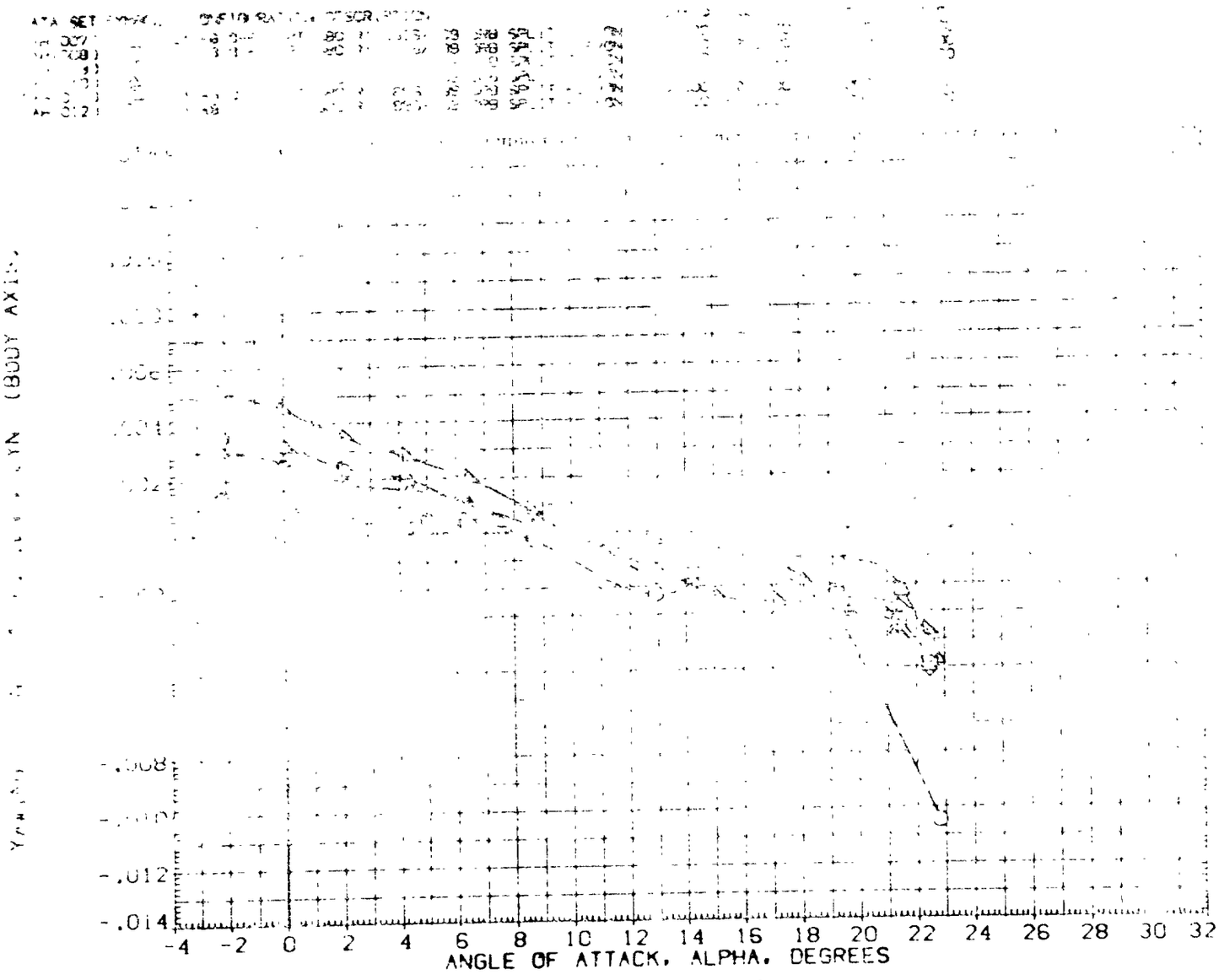


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(C)MACH = .85

DATA SET SYMBOL
CONFIGURATION DESCRIPTION
ELV-LO
ELV-LI
ELV-RI
ELV-RO
.020
.018
.016
.014
.012
.010
.008
.006
.004
.002

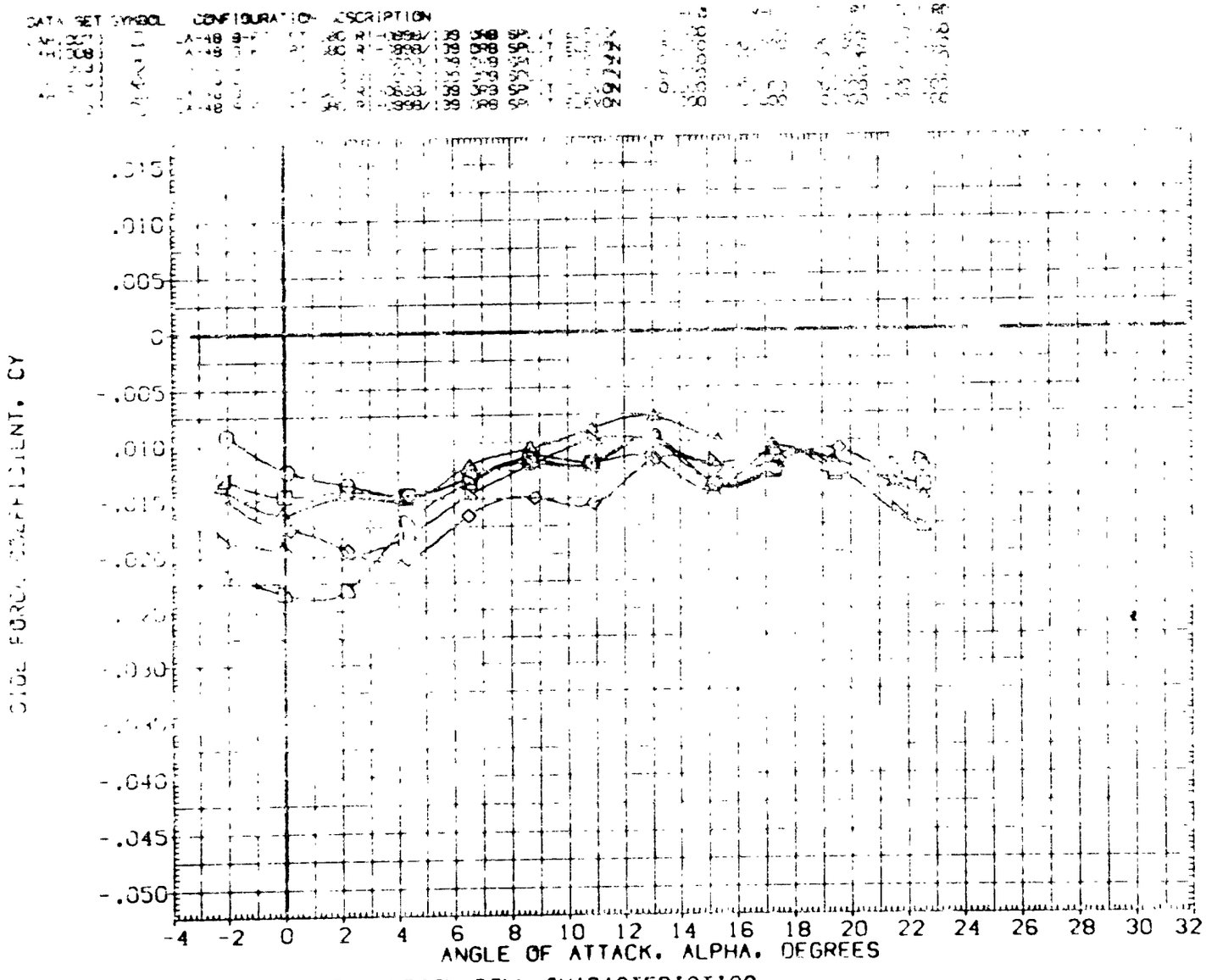
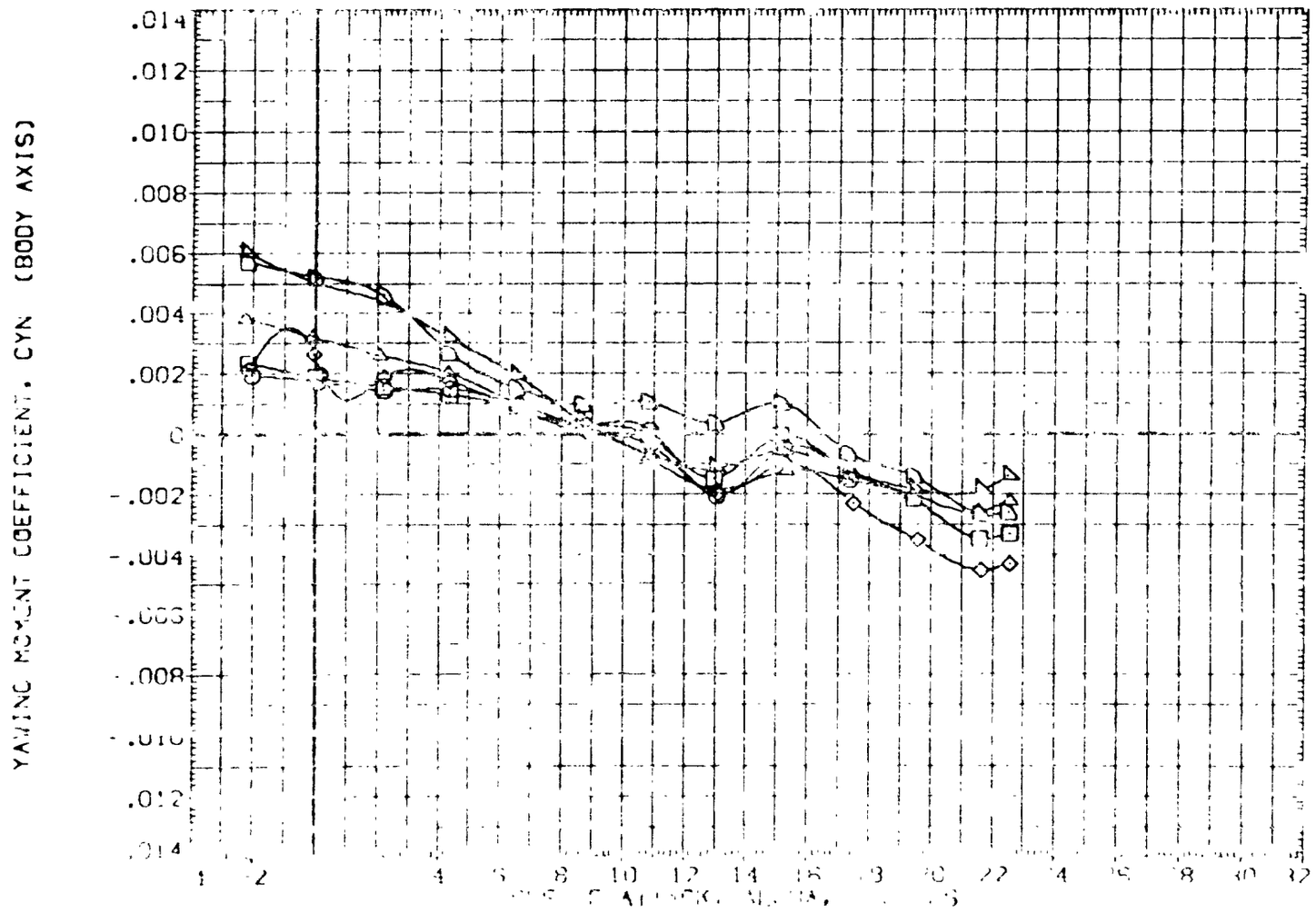


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1007)	□	LA-48 8-FT TPT 680 RI-0838/1.39 .088 SPLIT ELEVON	5.000	.000	.000	-5.000
(AH1008)	□	LA-48 8-FT TPT 680 RI-0838/1.39 .088 SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(AH1009)	◇	LA-48 8-FT TPT 680 RI-0838/1.39 .088 SPLIT ELEVON	-10.000	-20.000	-20.000	-10.000
(AH1010)	◇	LA-48 8-FT TPT 680 RI-0838/1.39 .088 SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(AH1011)	◇	LA-48 8-FT TPT 680 RI-0838/1.39 .088 SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(AH1012)	□	LA-48 8-FT TPT 680 RI-0838/1.39 .088 SPLIT ELEVON	.000	-10.000	-10.000	-20.000



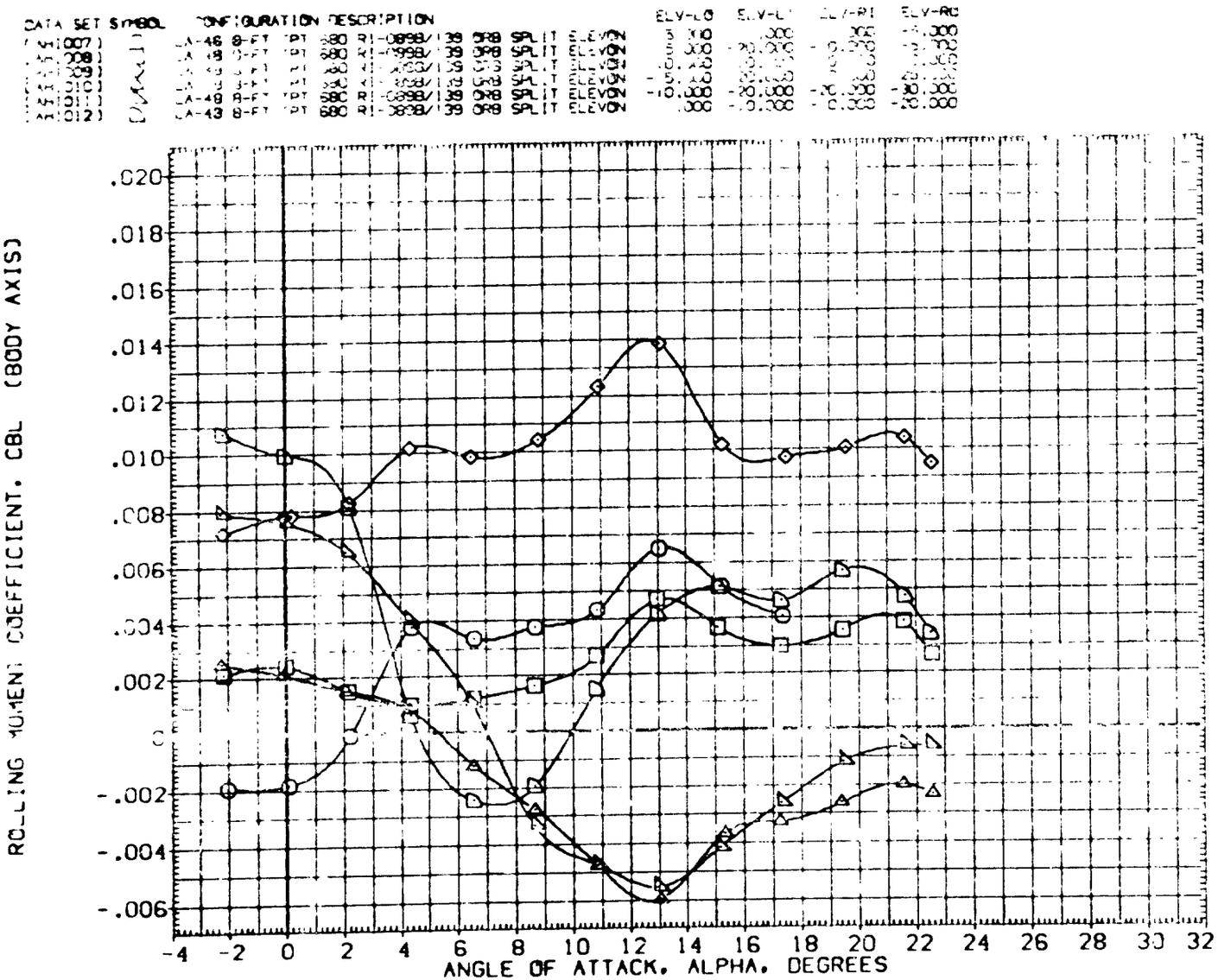
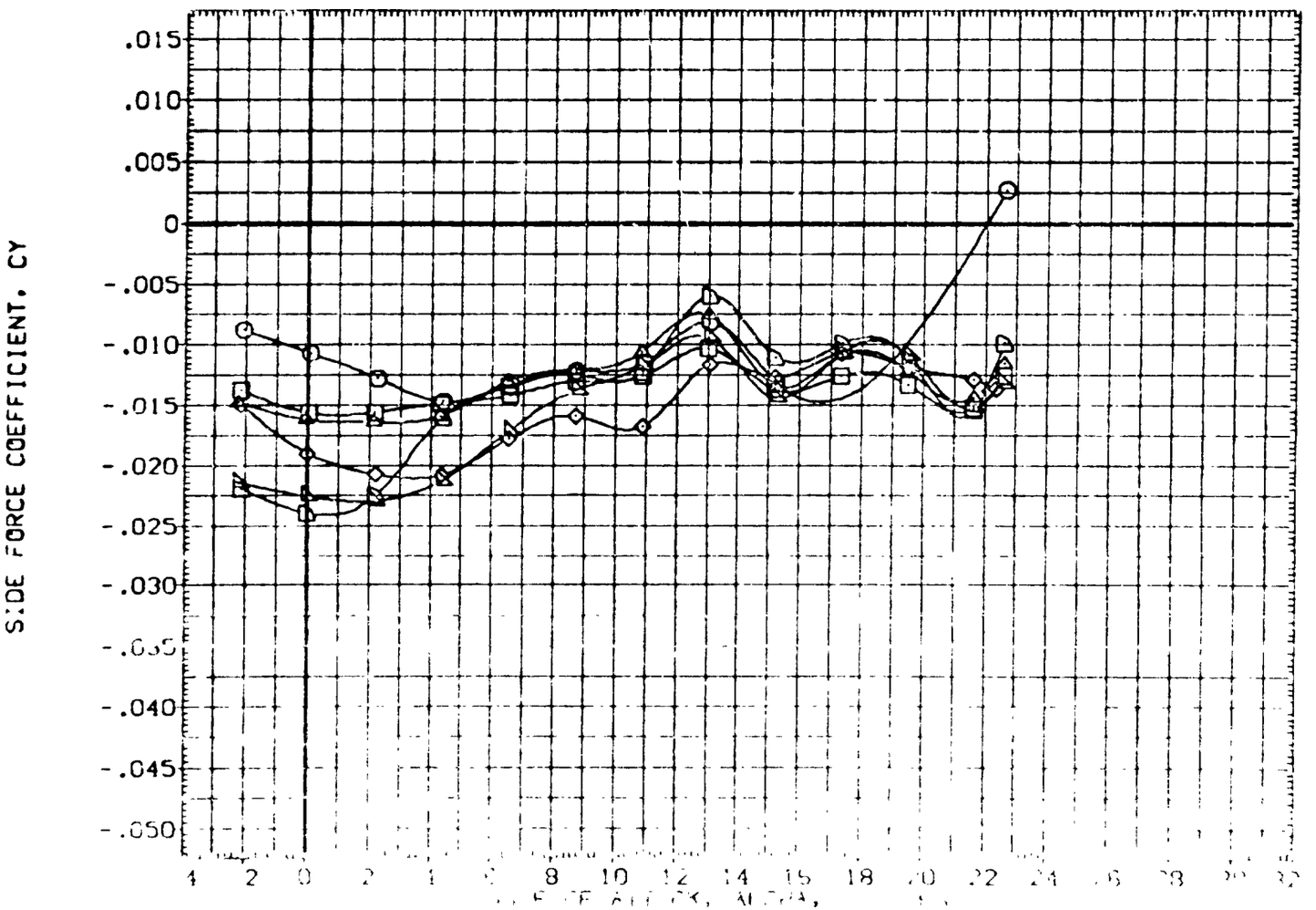


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1007)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	.000	.000	-5.000
(AH1008)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(AH1009)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000	-20.000	-20.000	-10.000
(AH1010)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(AH1011)	▽	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(AH1012)	⬠	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	-20.000



SIDE FORCE COEFFICIENT, CY

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(A1007)		LA-48 8-FT TPT 680 RI-0898/139 088 SPLIT ELEVON	5.000	.000	.000	.000
(A1008)		LA-48 8-FT TPT 680 RI-0898/139 088 SPLIT ELEVON	5.000	-10.000	-10.000	-20.000
(A1009)		LA-48 8-FT TPT 680 RI-0898/139 088 SPLIT ELEVON	-10.000	-10.000	-10.000	-20.000
(A1010)		LA-48 8-FT TPT 680 RI-0898/139 088 SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(A1011)		LA-48 8-FT TPT 680 RI-0898/139 088 SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(A1012)		LA-48 8-FT TPT 680 RI-0898/139 088 SPLIT ELEVON	.000	-10.000	-10.000	-20.000

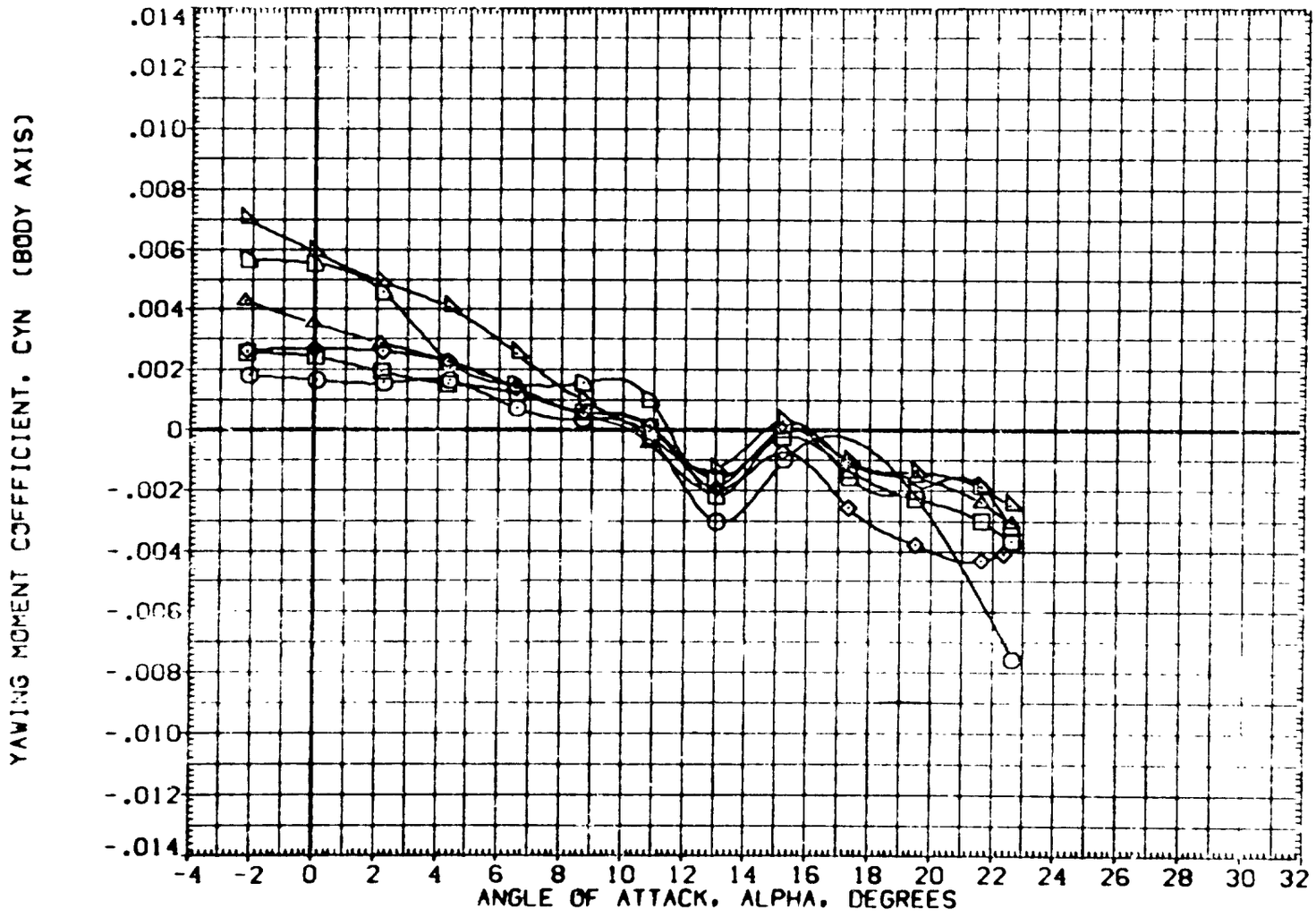
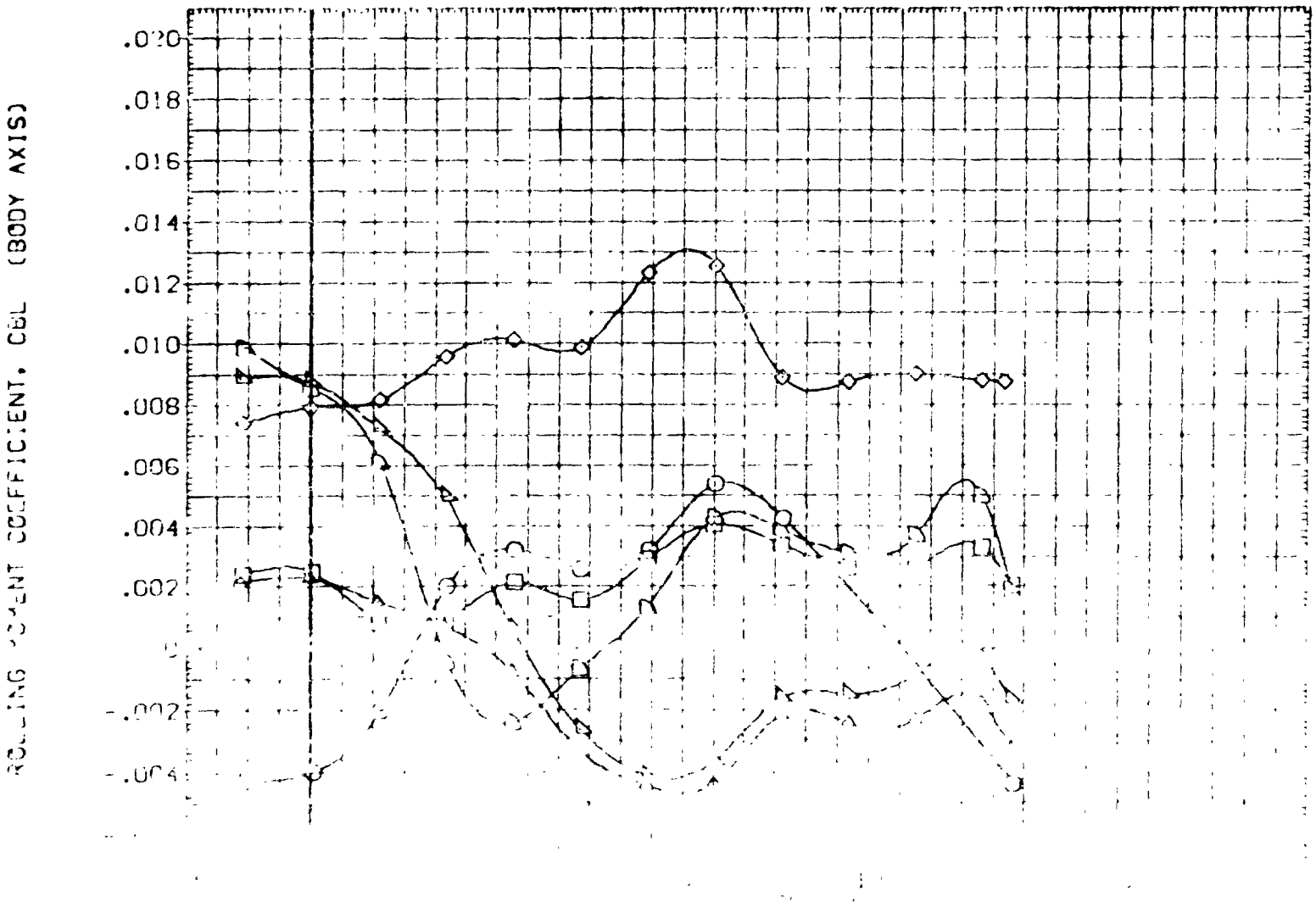


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(E)MACH = .92

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AM1007)	□	LA-1 8-FT [illegible] SPLIT ELEVON	5.000	.000	.000	-5.000
[illegible]	[illegible]	[illegible] SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
[illegible]	[illegible]	[illegible] SPLIT ELEVON	10.000	-20.000	20.000	-10.000
(AM1010)	◇	LA-1[illegible] 8-FT [illegible] SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(AM1011)	○	LA-48 8-FT [illegible] SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(AM1012)	△	LA-48 8 FT [illegible] SPLIT ELEVON	.000	-10.000	-10.000	-20.000



ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-L	ELV-LI	ELV-RI	ELV-RO
(AH1007)	◇	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	5.000	20.000	20.000	5.000
(AH1008)	▽	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	5.000	-20.000	20.000	5.000
(AH1009)	△	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	-10.000	-20.000	0.000	0.000
(AH1010)	□	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	-15.000	-20.000	0.000	0.000
(AH1011)	○	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(AH1012)	⊙	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	.000	0.000	0.000	-20.000

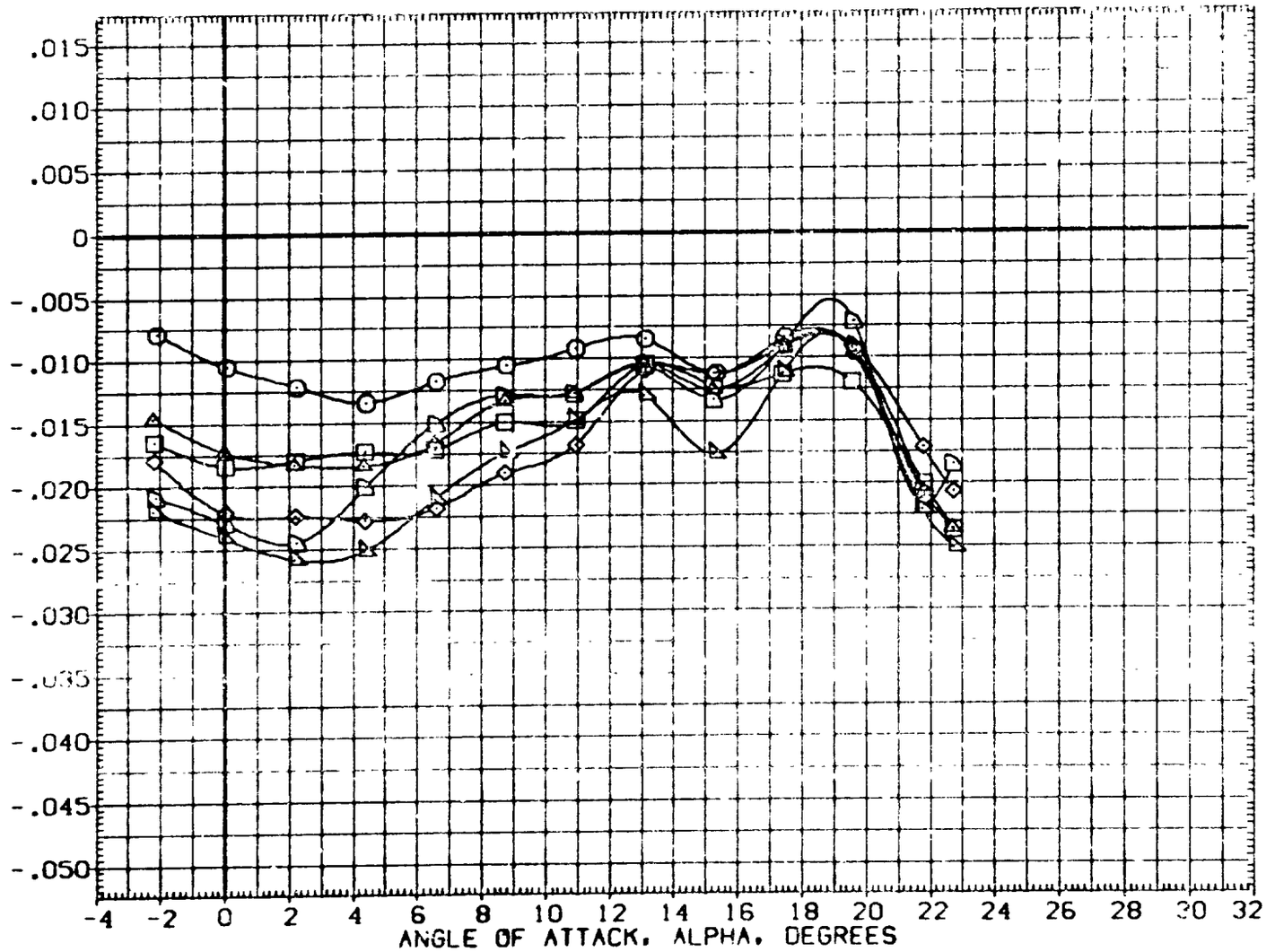


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(F)MACH = .95

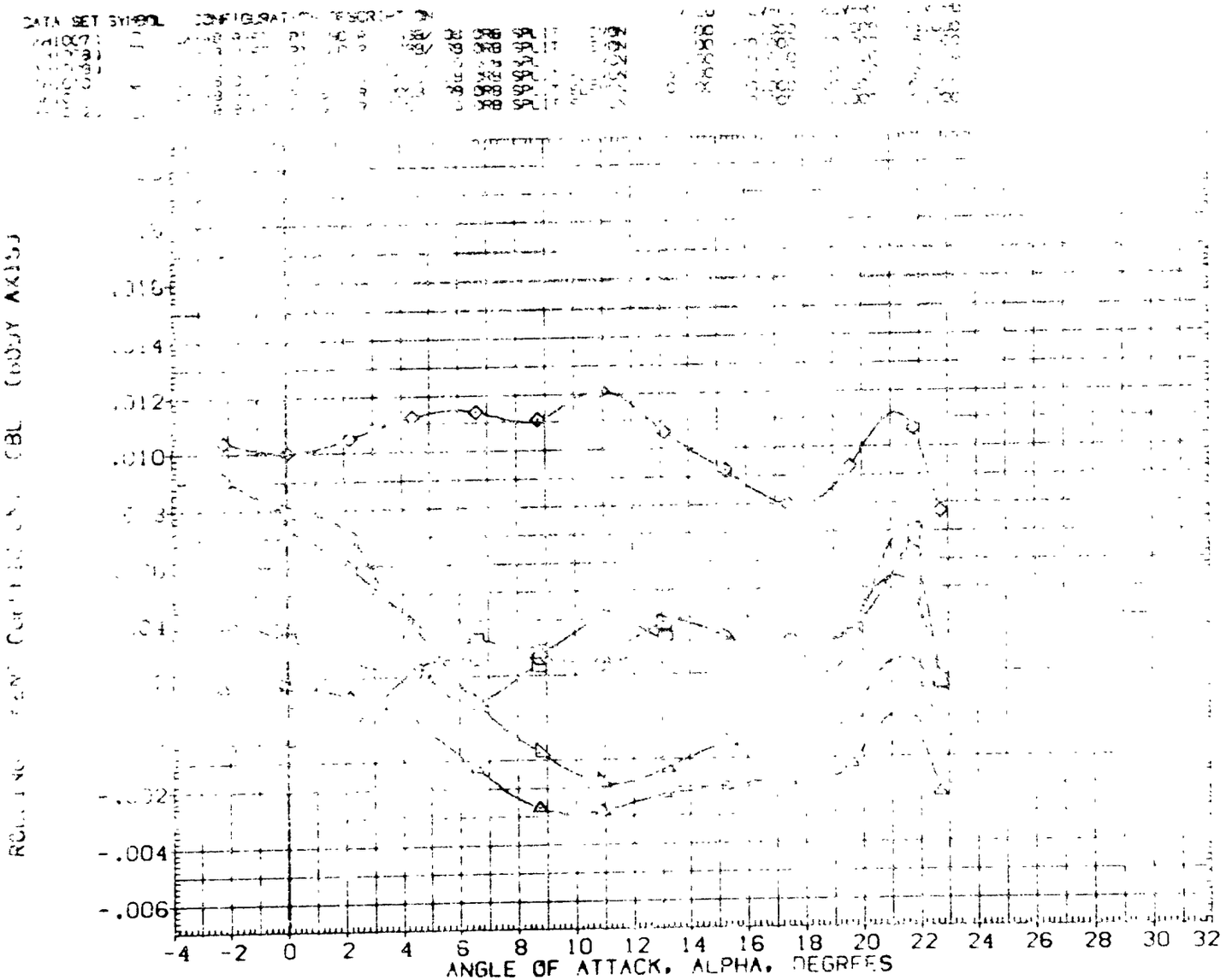


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(F)MACH = .95

DATA SET SYMBOL
CONFIGURATION DESCRIPTION
ELV-LO
ELV-LI
ELV-RI
ELV-RO
.015
.010
.005
0
-.005
-.010
-.015
-.020
-.025
-.030

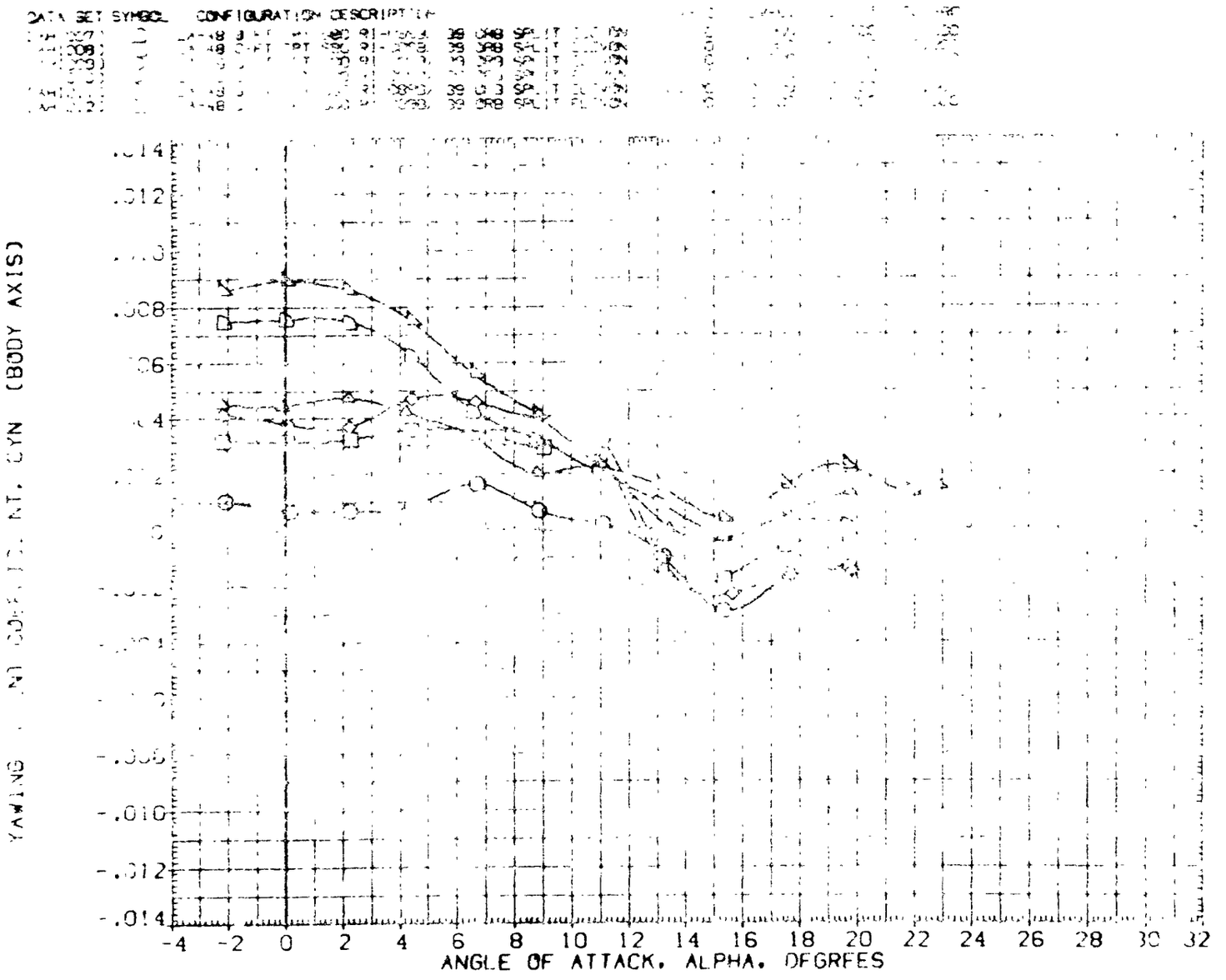
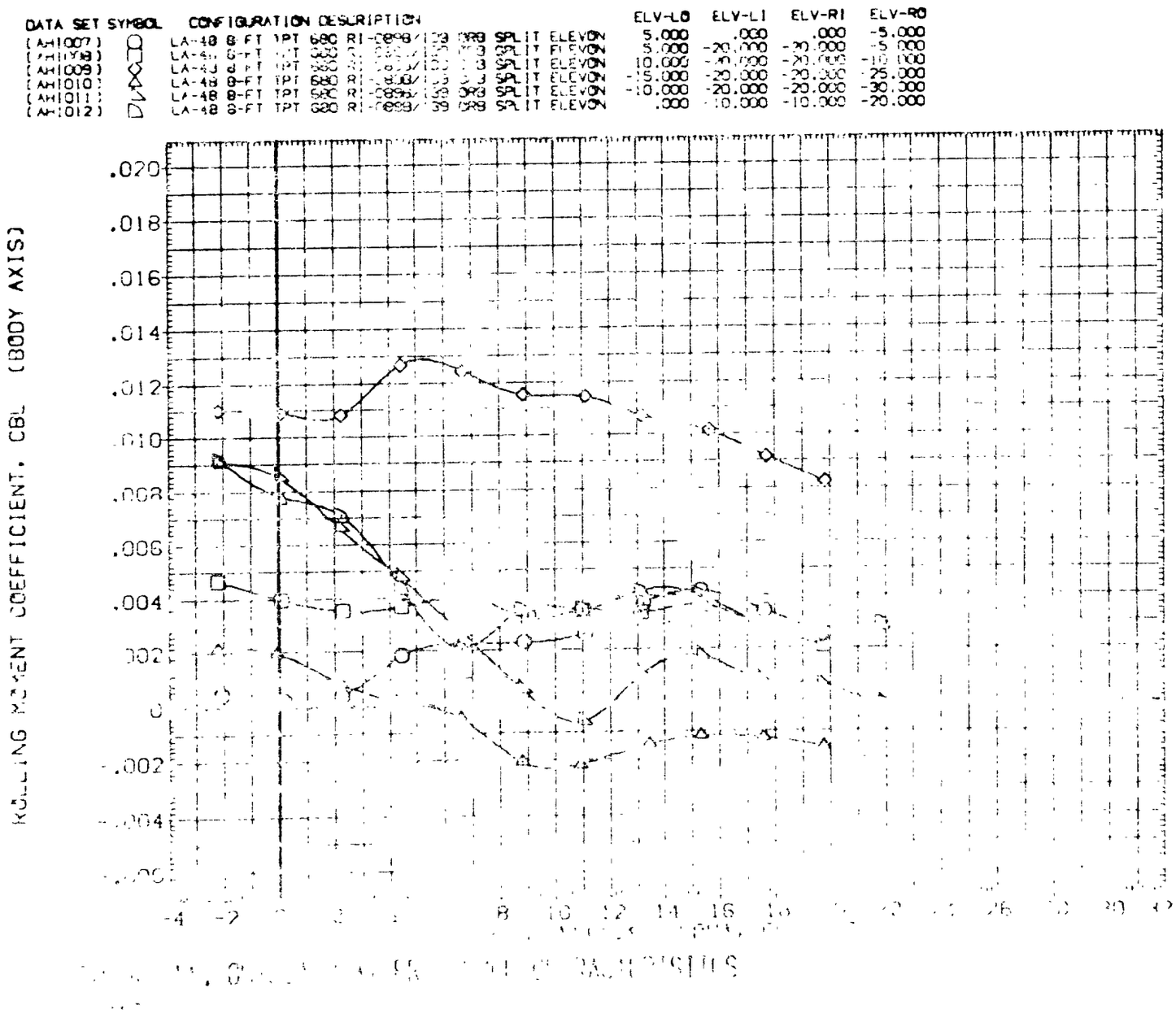


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(G)MACH = .98


DATA SET SYMBOL
CONFIGURATION DESCRIPTION
ELV-LO
ELV-LI
ELV-RI
ELV-RO
(AH1007) LA-48 8-FT TPT 680 RI-0898/120 SPLIT ELEVON 5.000 .000 .000 -5.000
(AH1008) LA-48 8-FT TPT 680 RI-0898/120 SPLIT ELEVON -5.000 -20.000 -20.000 -5.000
(AH1009) LA-48 8-FT TPT 680 RI-0898/120 SPLIT ELEVON -10.000 -20.000 -20.000 -10.000
(AH1010) LA-48 8-FT TPT 680 RI-0898/120 SPLIT ELEVON -15.000 -20.000 -20.000 -25.000
(AH1011) LA-48 8-FT TPT 680 RI-0898/120 SPLIT ELEVON -10.000 -20.000 -20.000 -30.000
(AH1012) LA-48 8-FT TPT 680 RI-0898/120 SPLIT ELEVON .000 -10.000 -10.000 -20.000
ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)
.020
.018
.016
.014
.012
.010
.008
.006
.004
.002
-4
-2
8
10
12
14
16

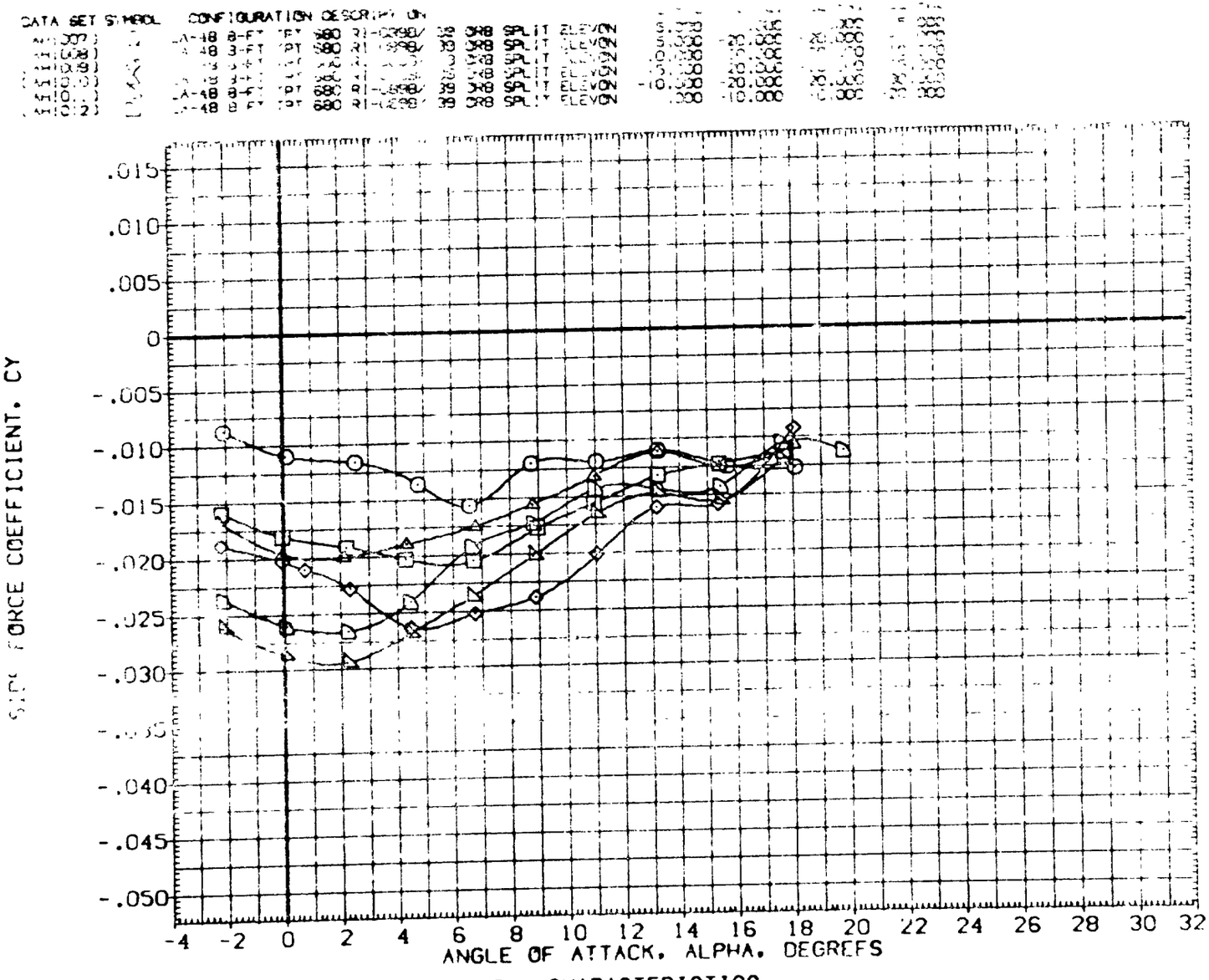
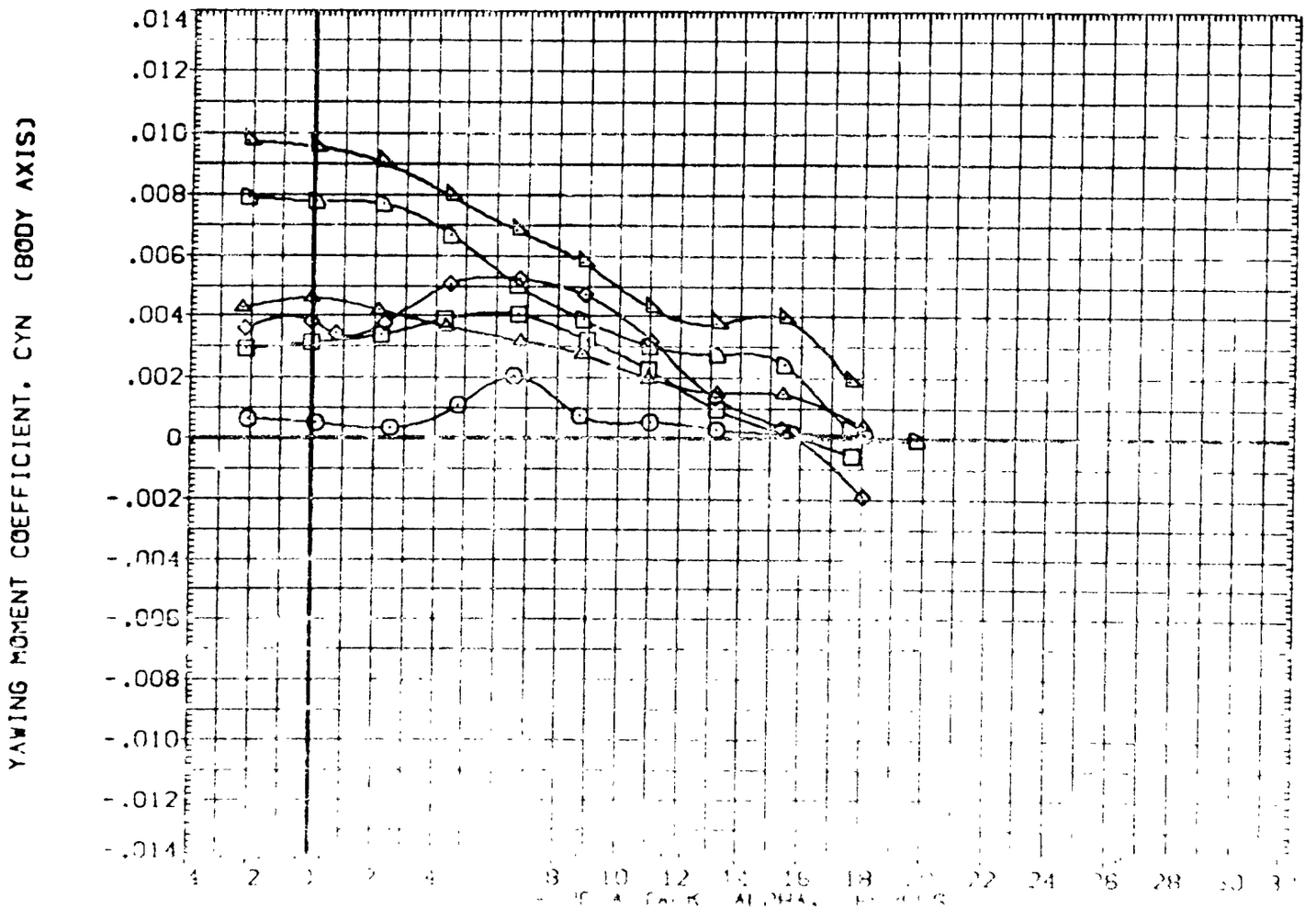


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(H)MACH = 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(AH1007)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	.000	.000	-5.000
(AH1008)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(AH1009)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000	-20.000	-20.000	-10.000
(AH1010)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(AH1011)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000
(AH1012)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	-20.000



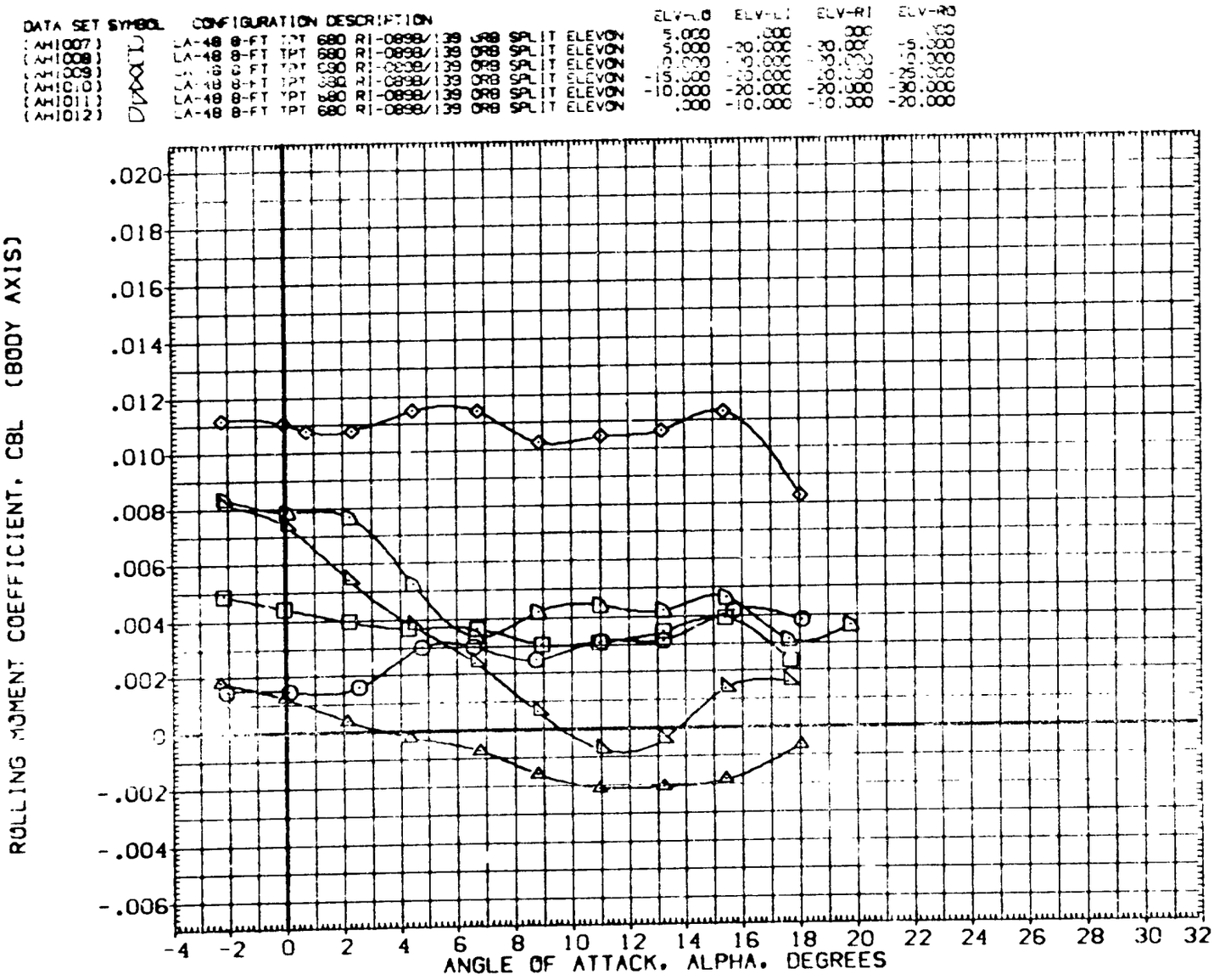
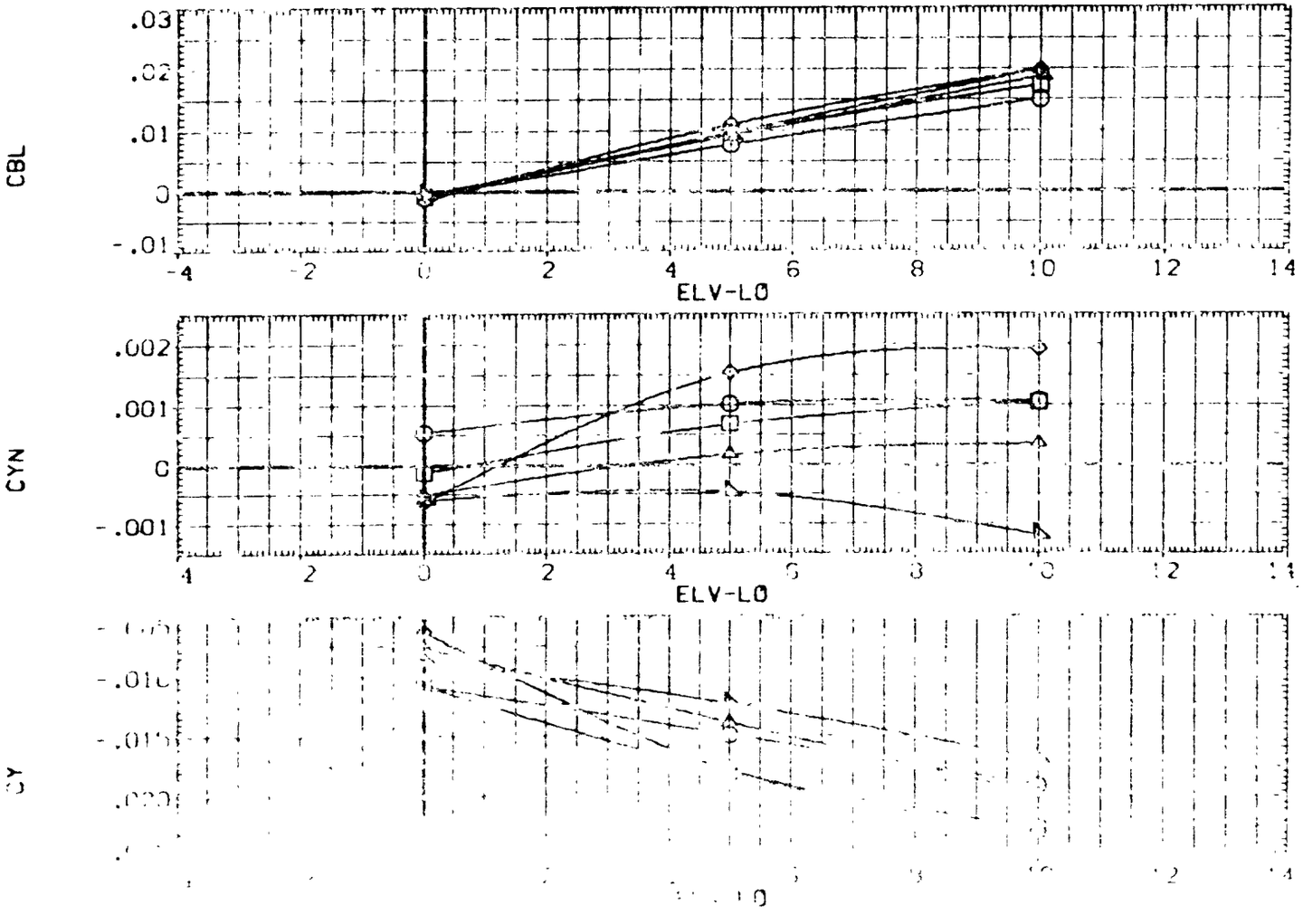


FIGURE 11. OUTBOARD AILERON ROLL CHARACTERISTICS

(H)MACH = 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(BH1A01)	□	LA-48 C-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000
(BH1A02)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000
(BH1A03)	▽	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000
(BH1A04)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	15.000
(BH1A05)	◁	LA-48 8-FT TPT 680 RI-0898/139 ORB SPL T ELEVON	18.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(B)(A01)	SOLID	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	.000
(B)(A02)	SOLID	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	5.000
(B)(A03)	SOLID	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	10.000
(B)(A04)	SOLID	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	15.000
(B)(A05)	SOLID	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	18.000

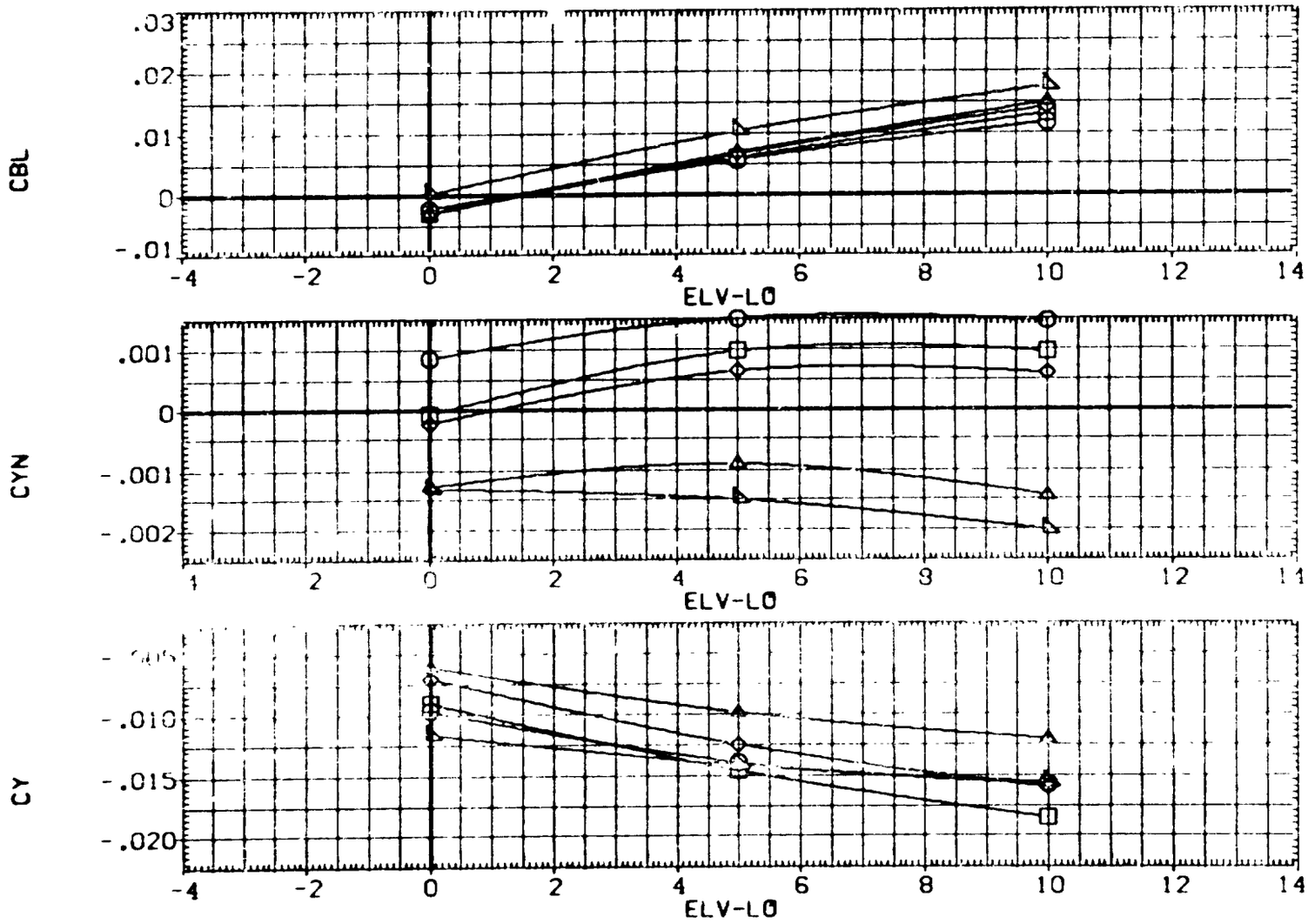
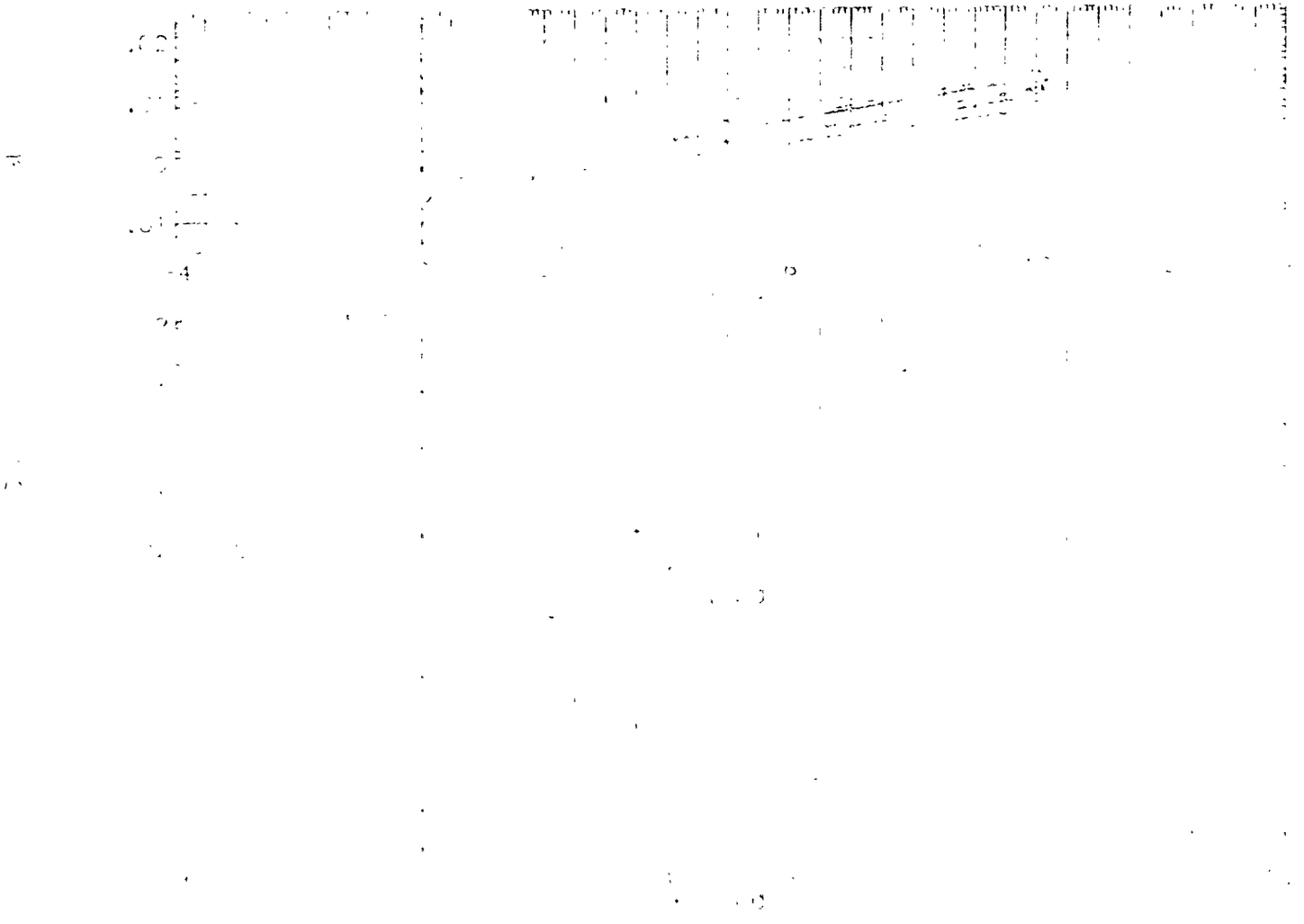


FIGURE 12. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(INBOARD ELEVON DEFLECTED)

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(BH1A01)		LA-48 8-FT TPT 680 RI-0898/139 348 SPLIT ELEVON	.000
(BH1A02)		LA-48 8-FT TPT 680 RI-0898/139 348 SPLIT ELEVON	5.000
(BH1A03)		[illegible] SPLIT ELEVON	10.000
(BH1A04)		[illegible] SPLIT ELEVON	15.000
BH1A05)		LA-48 8-FT [illegible] SPLIT ELEVON	18.000



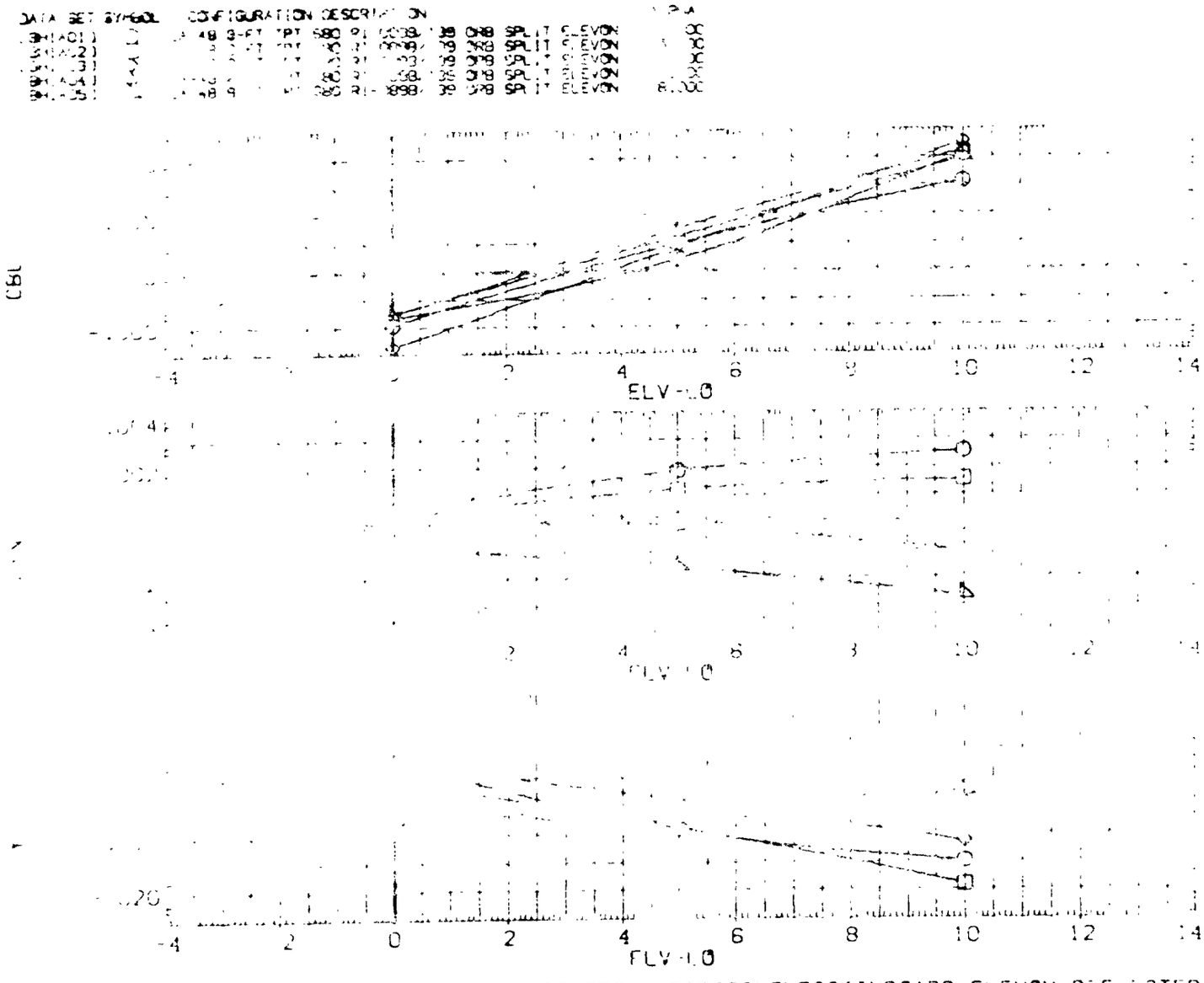
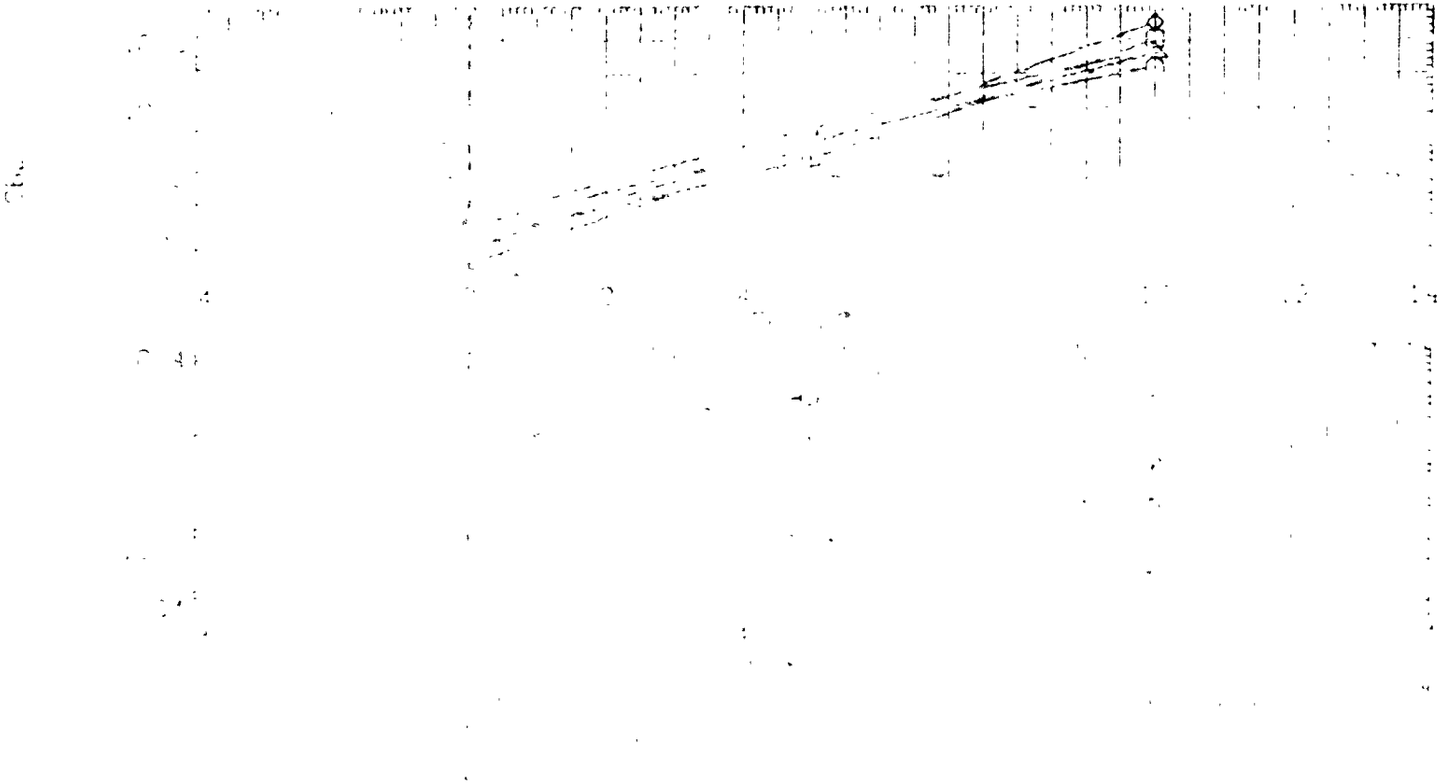


FIGURE 12. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(INBOARD ELEVON DEFLECTED)

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(1)(1A01)	□	[illegible] 0858/.38 .588 SPLIT ELEVON	.000
(1)(1A02)	◇	[illegible] 0858/.38 .588 SPLIT ELEVON	5.000
(1)(1A03)	△	[illegible] 0858/.38 .588 SPLIT ELEVON	10.000
(1)(1A04)	▽	[illegible] 0858/.38 .588 SPLIT ELEVON	15.000
(1)(1A05)	○	[illegible] 0858/.38 .588 SPLIT ELEVON	19.000



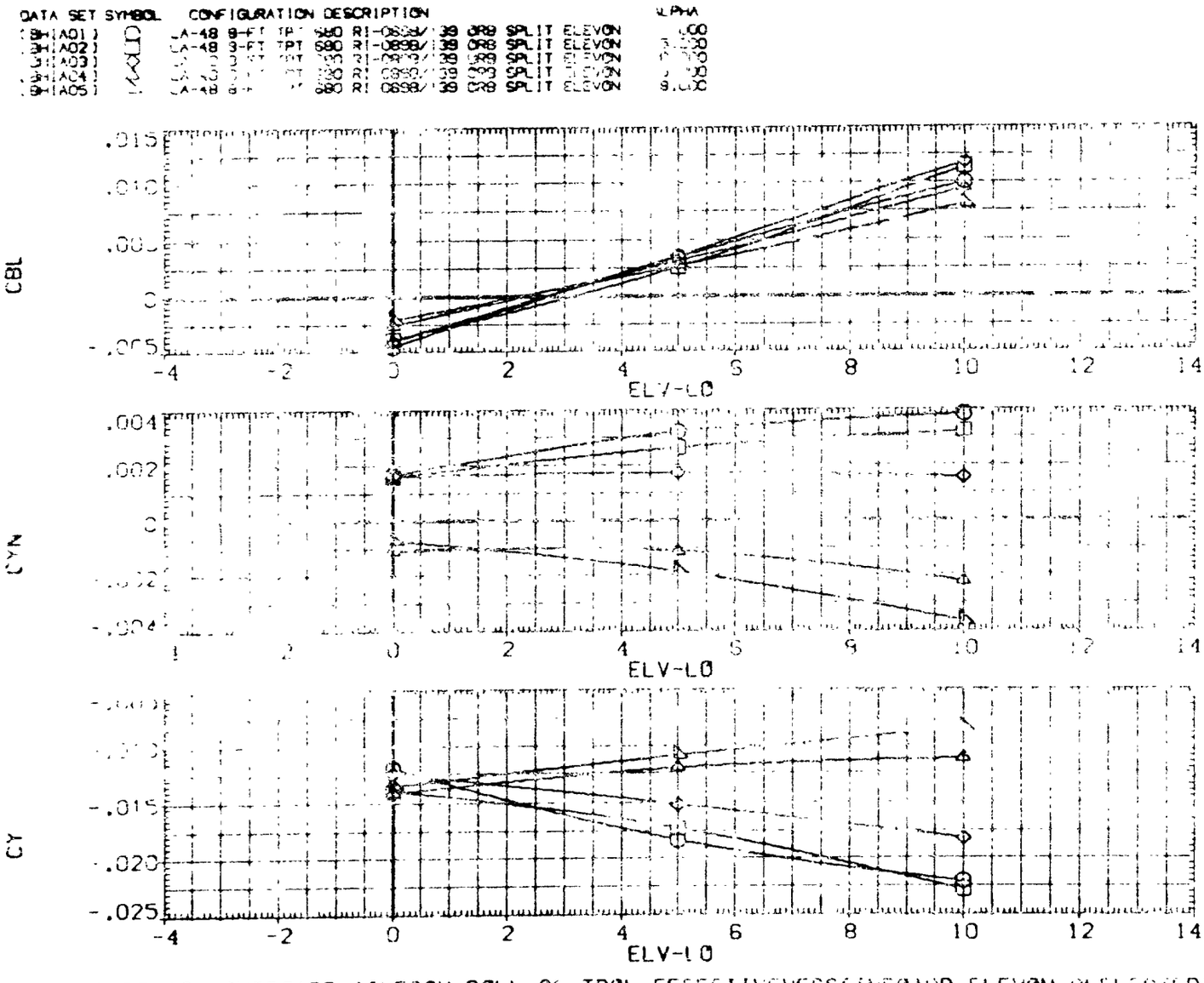
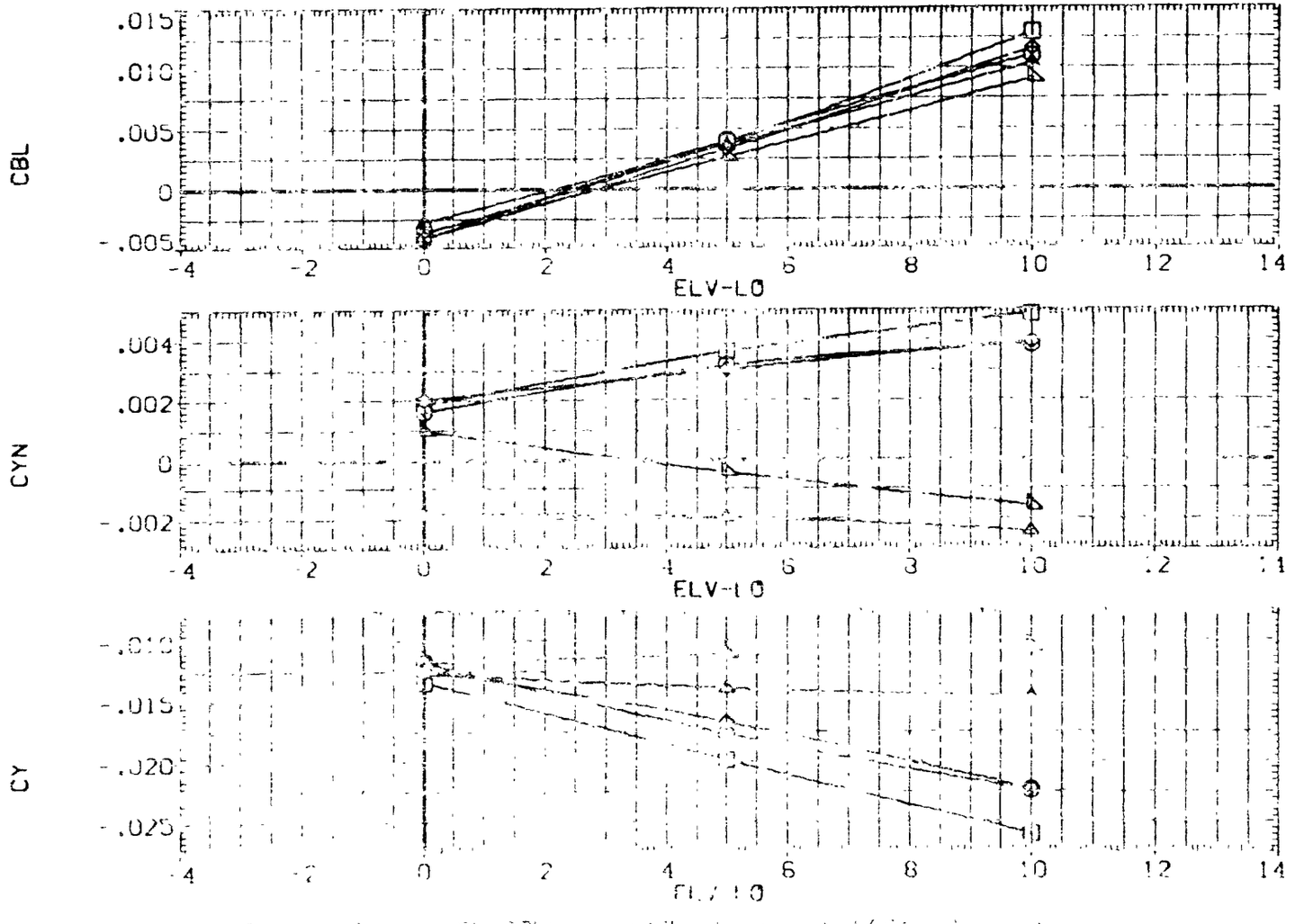


FIGURE 12. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(INBOARD ELEVON DEFLECTED)

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(BH1A01)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000
(BH1A02)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000
(BH1A03)	△	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000
(BH1A04)	▽	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	15.000
(BH1A05)	⊲	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	18.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA
(BH1A01)	◇	LA-48 3-FT TPT S80 R1-0898/139 ORB SPLIT ELEVON	.000
(BH1A02)	△	LA-48 3-FT TPT S80 R1-0898/139 ORB SPLIT ELEVON	5.000
(BH1A03)		LA-48 3-FT TPT S80 R1-0898/139 ORB SPLIT ELEVON	10.000
(BH1A04)		LA-48 3-FT TPT S80 R1-0898/139 ORB SPLIT ELEVON	15.000
(BH1A05)		LA-48 3-FT TPT S80 R1-0898/139 ORB SPLIT ELEVON	18.000

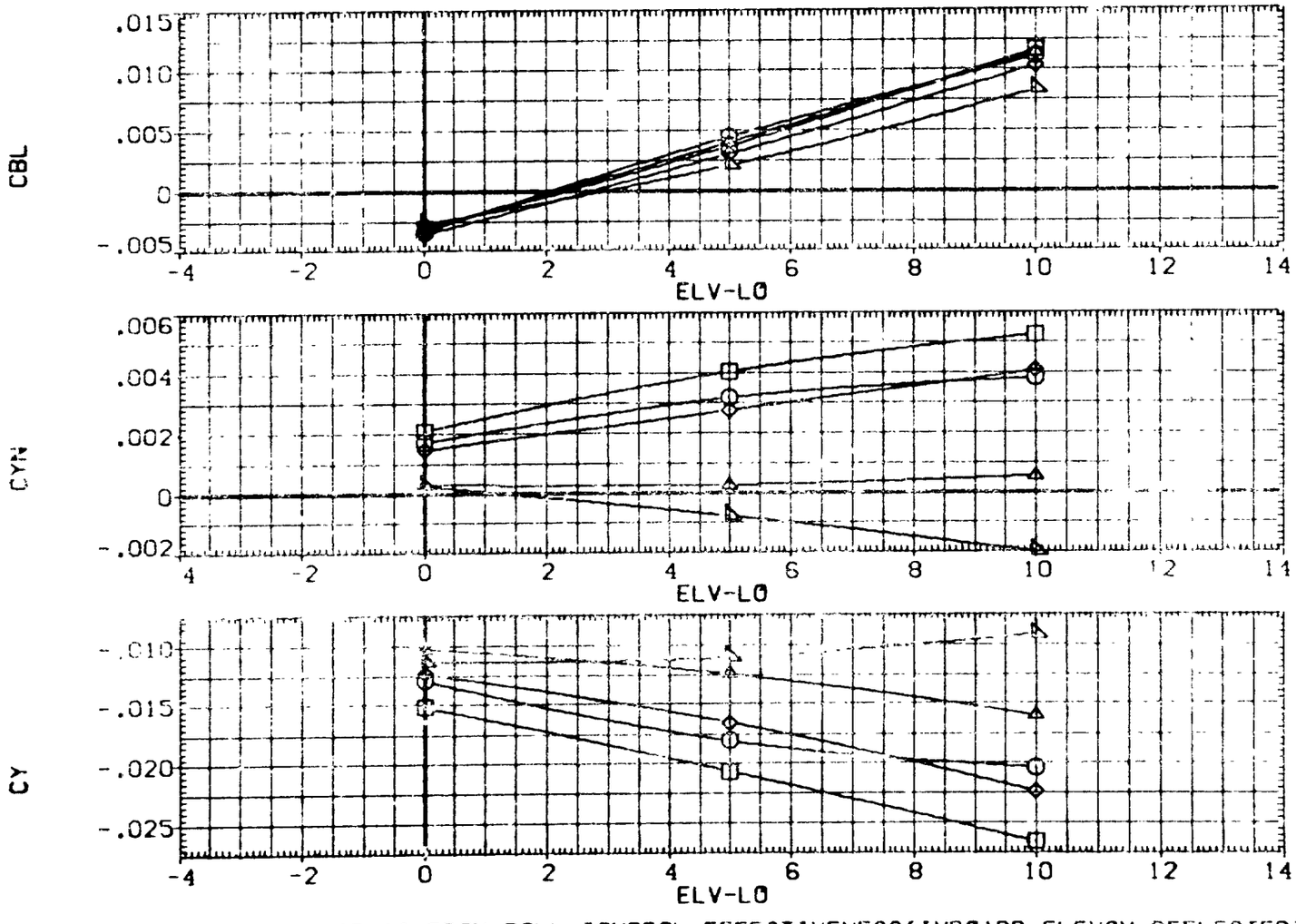
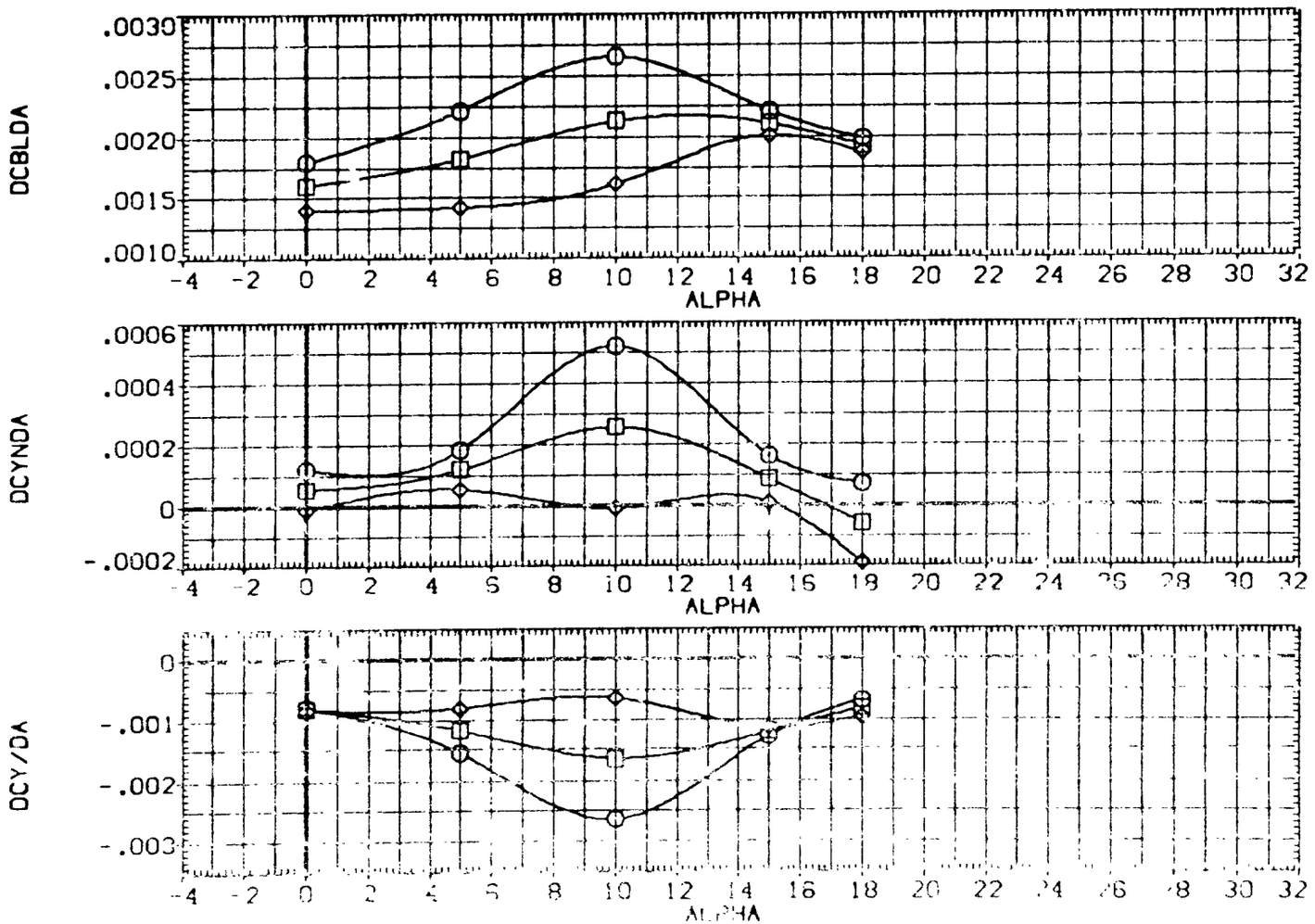


FIGURE 12. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(INBOARD ELEVON DEFLECTED)

(H)MACH = 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1003)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000
(CH1008)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(CH1009)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000	-20.000	-20.000	-10.000



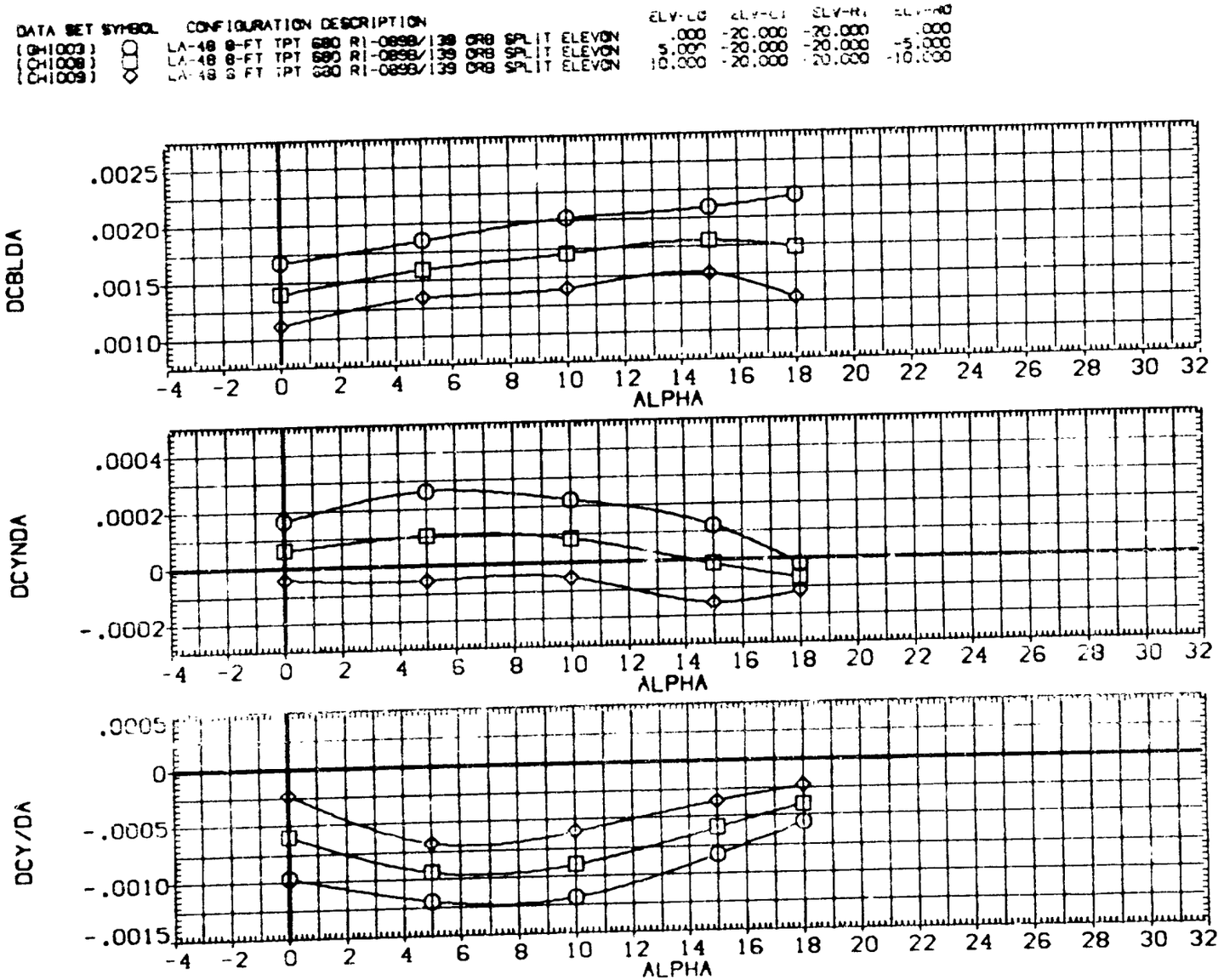
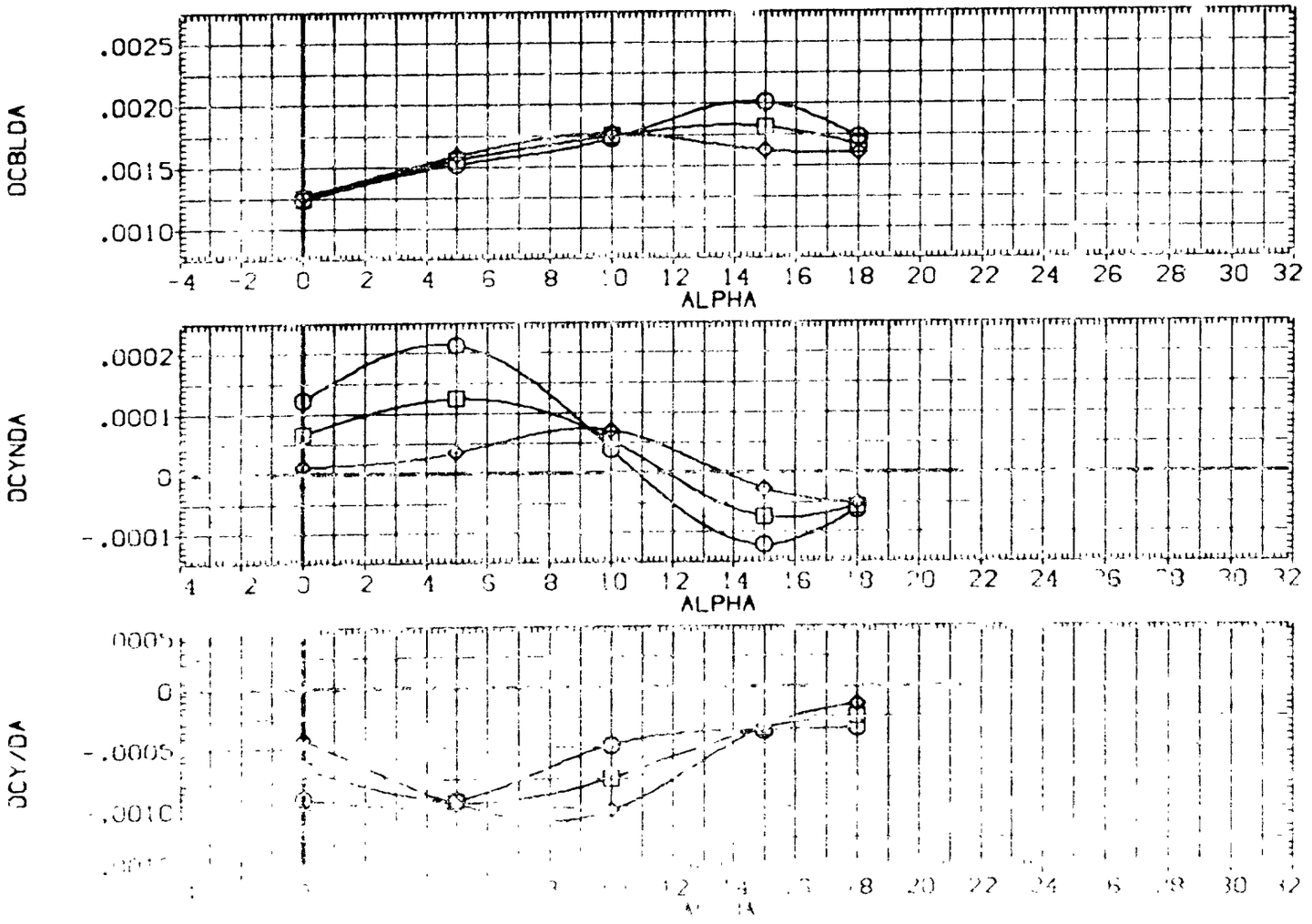


FIGURE 12. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(INBOARD ELEVON DEFLECTED)

PAGE 110

(B)MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1003)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000
(CH1008)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(CH1009)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000	-20.000	-20.000	-10.000



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(GH1003)	LA-48 8-FT TP 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000
(GH1008)	LA-48 8-FT TP 680 RI-0898/139 ORB SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(GH1009)	LA-48 8 FT TP 680 RI-0898/139 ORB SPLIT ELEVON	10.000	-20.000	-20.000	-10.000

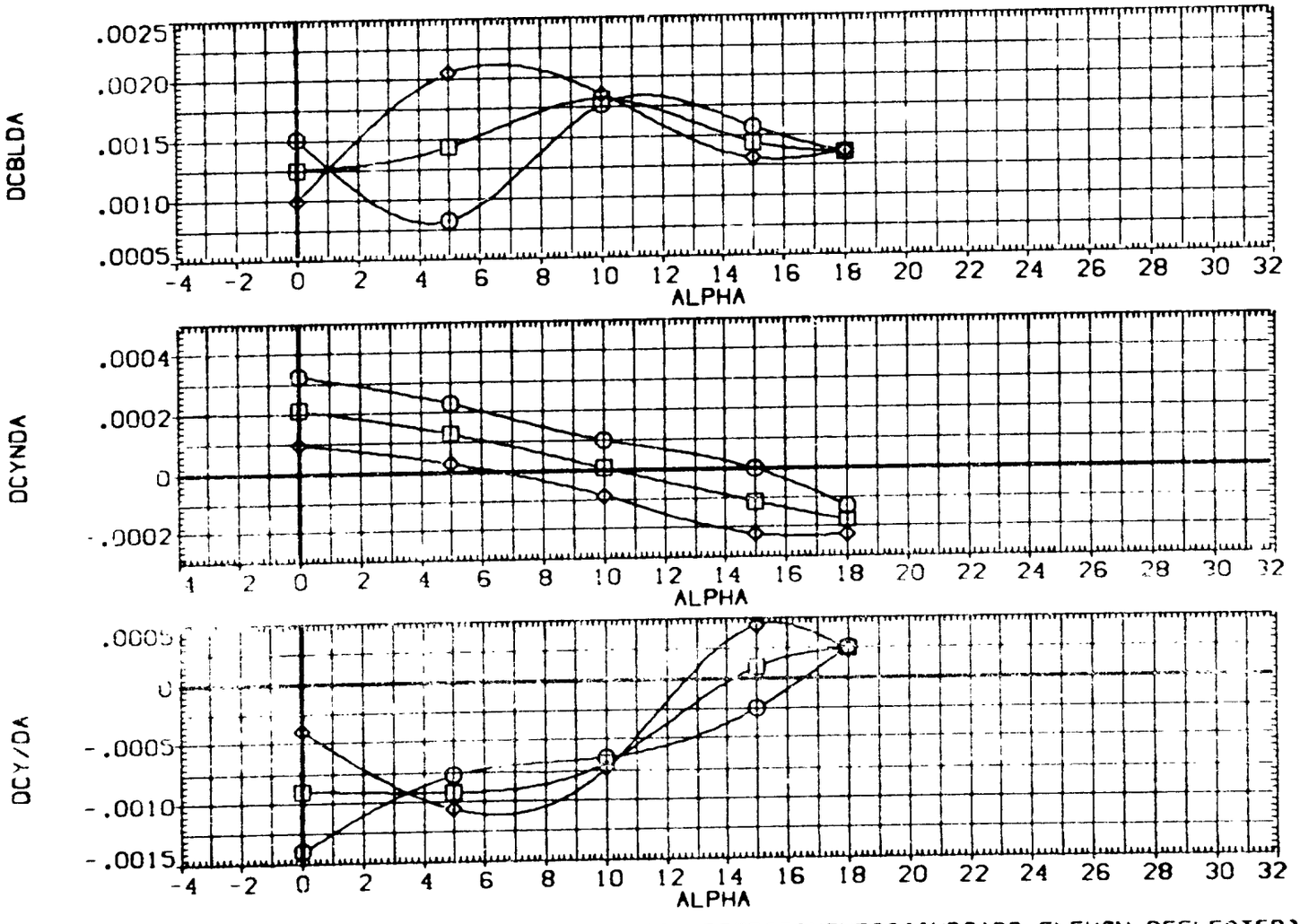
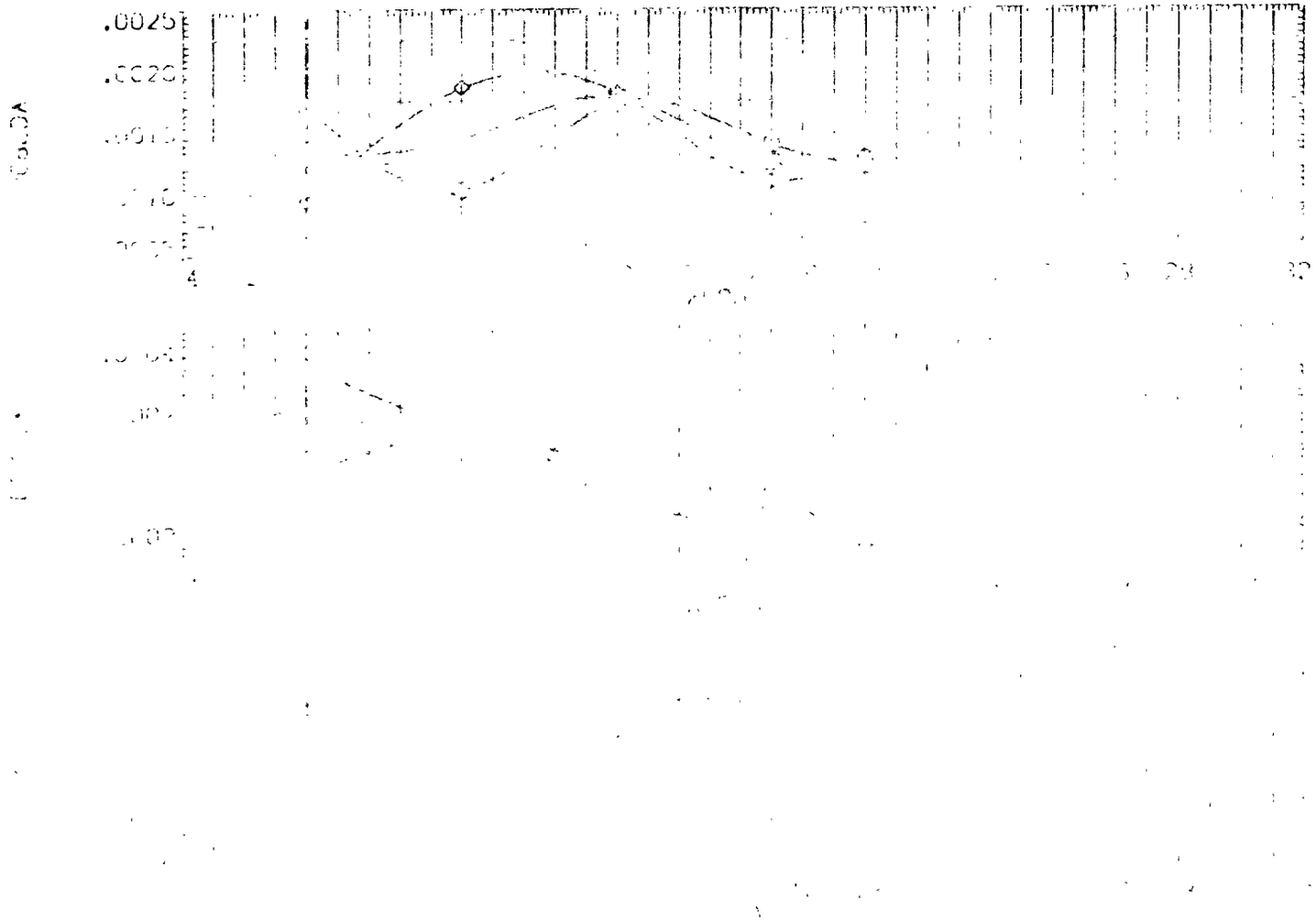


FIGURE 12. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(INBOARD ELEVON DEFLECTED)

(D)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(GH1003)	□	LA-48 8-FT TPT 680 RI-0898/139 038 SPLIT ELEVON	.000	-20.000	-20.000	.000
(GH1008)	○	LA-48 8-FT TPT 690 RI-0908/139 008 SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(GH1009)	◇	LA-48 8-FT TPT 680 RI-0898/139 038 SPLIT ELEVON	10.000	-20.000	-20.000	-10.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(CH1003)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000
(CH1008)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(CH1009)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-0.000	-20.000	-20.000	-10.000

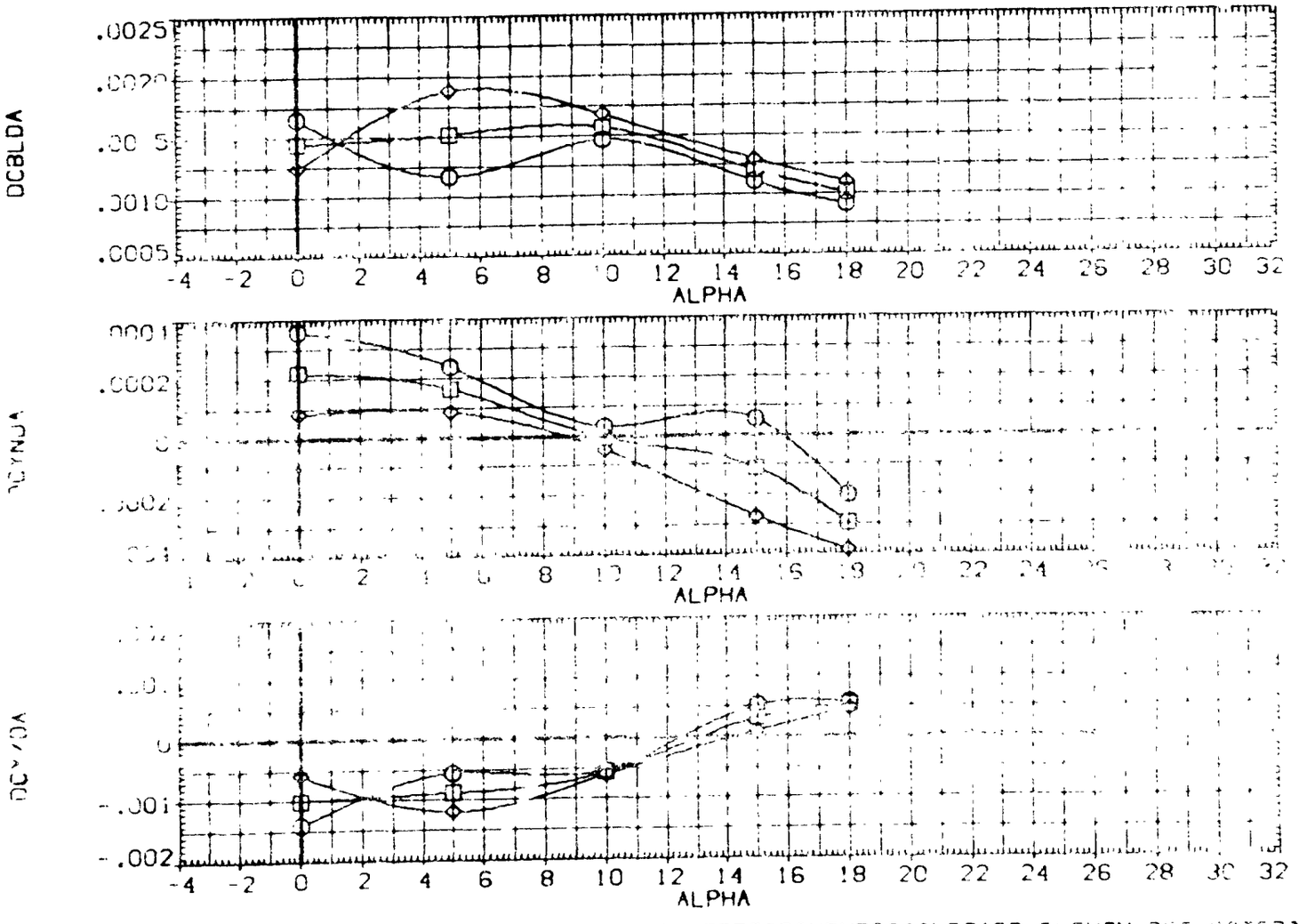
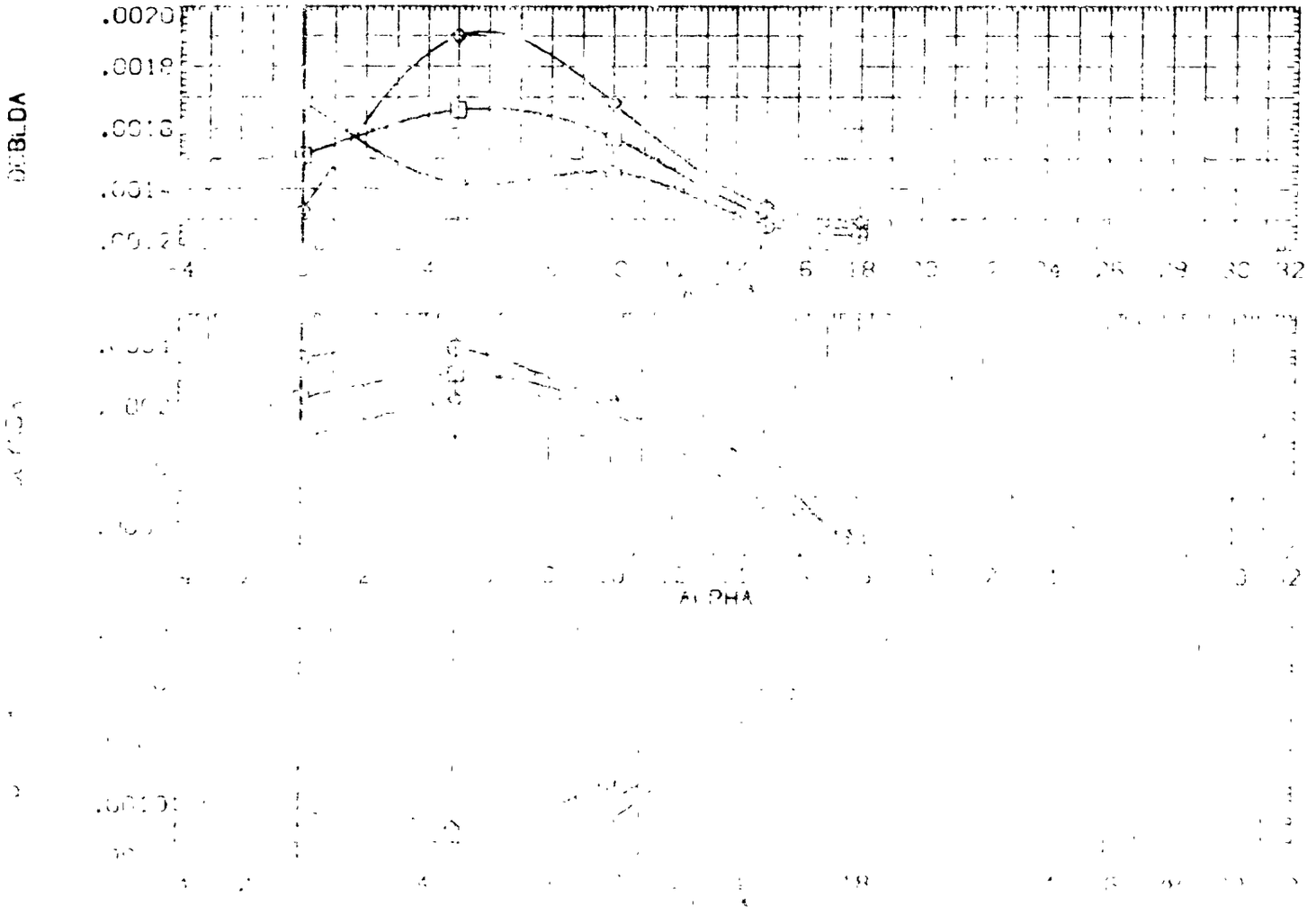


FIGURE 12. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(INBOARD ELEVON DEFLECTED)

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(GH1003)	○	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000
(GH1008)	□	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	5.000	-20.000	-20.000	-5.000
(GH1009)	◇	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	10.000	-20.000	-20.000	-10.000



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV RI	ELV-RO
(H)003)	LA-48 8-FT TPT 680 RI-0898/.39 ORB SPLIT ELEVON	.000	-20.000	-20.000	.000
(H)008)	LA-48 8-FT TPT 680 RI-0998/.39 ORB SPLIT ELEVON	-5.000	-20.000	-20.000	-5.000
(H)009)	LA-48 8-FT TPT 680 RI-0998/.39 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-10.000

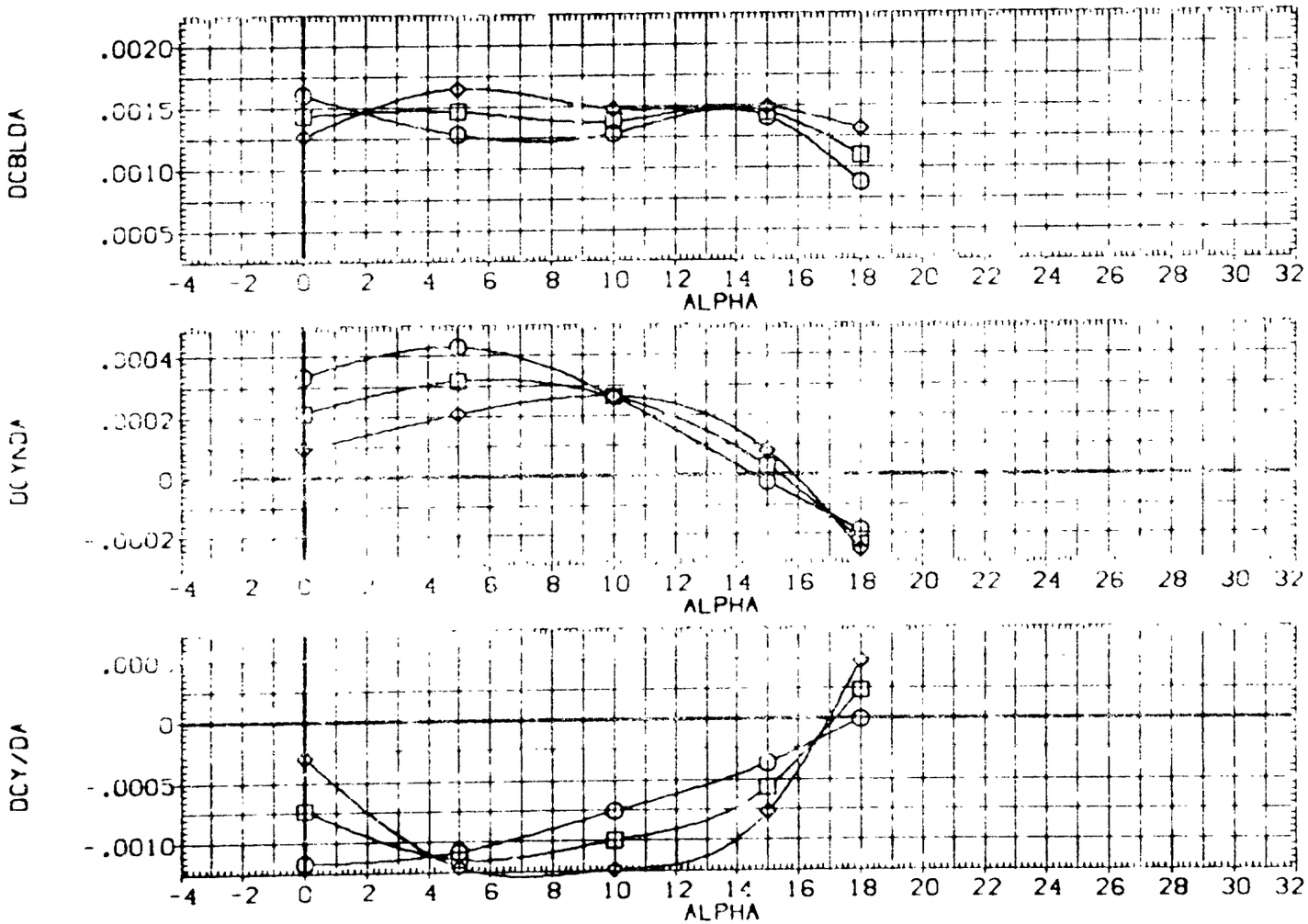


FIGURE 12. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(INBOARD ELEVON DEFLECTED)

(H)MACH = 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(EH1012)	○	LA-48 8-FT TPT 680 RI-0898/139 348 SPLIT ELEVON	.000	-10.000	-10.000	-20.000
(EH1010)	□	LA-48 8-FT TPT 680 RI-0898/139 048 SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(EH1011)	◇	LA-48 8-FT TPT 680 RI-0898/139 096 SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000

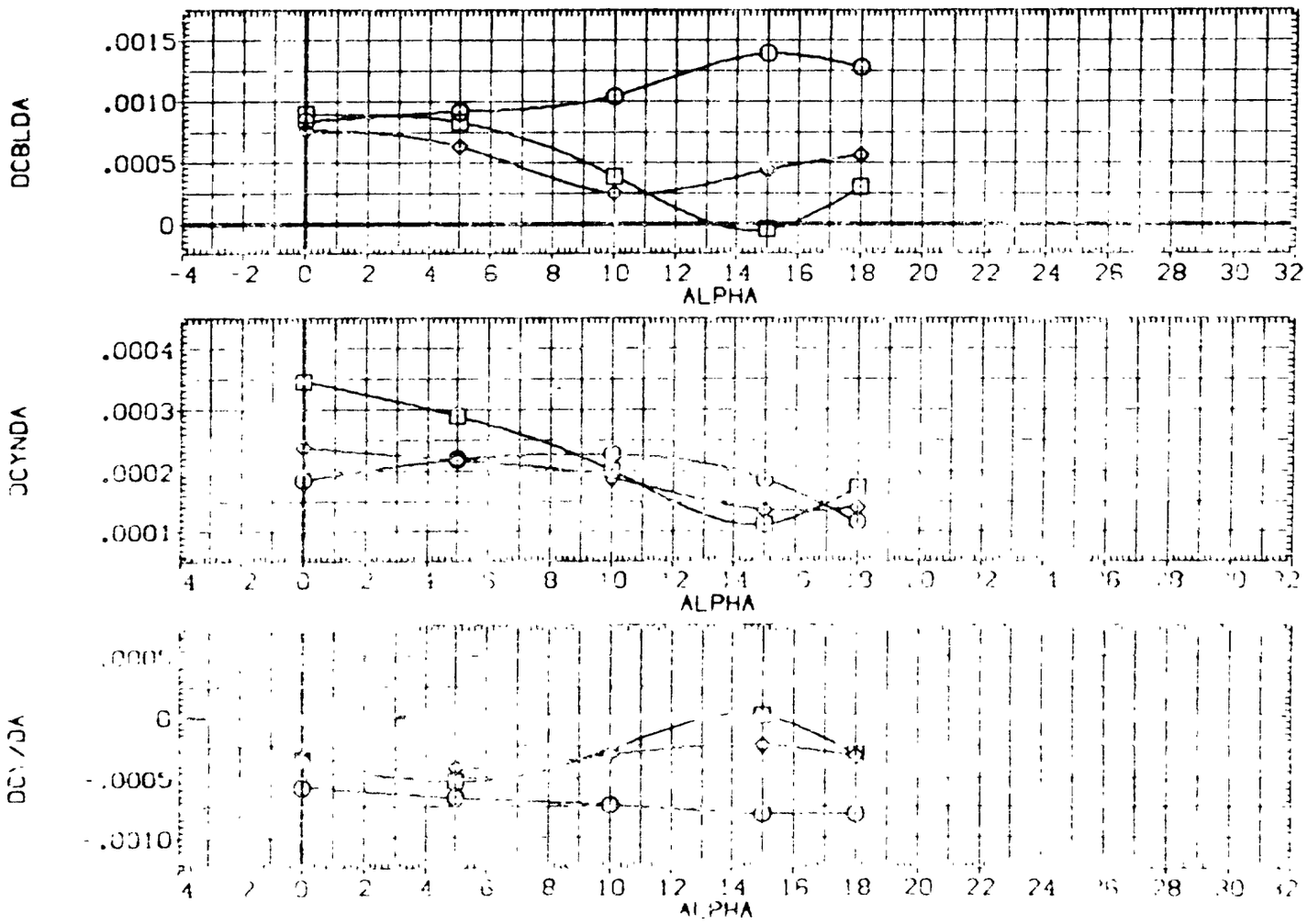


FIGURE [illegible]

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(EH1012)	LA-48 8-FT TPT 680 RI-0898/138 ORB SPLIT ELEVON	.000	-10.000	-10.000	-20.000
(EH1010)	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(EH1011)	LA-48 8-FT TPT 680 RI 0898/139 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000

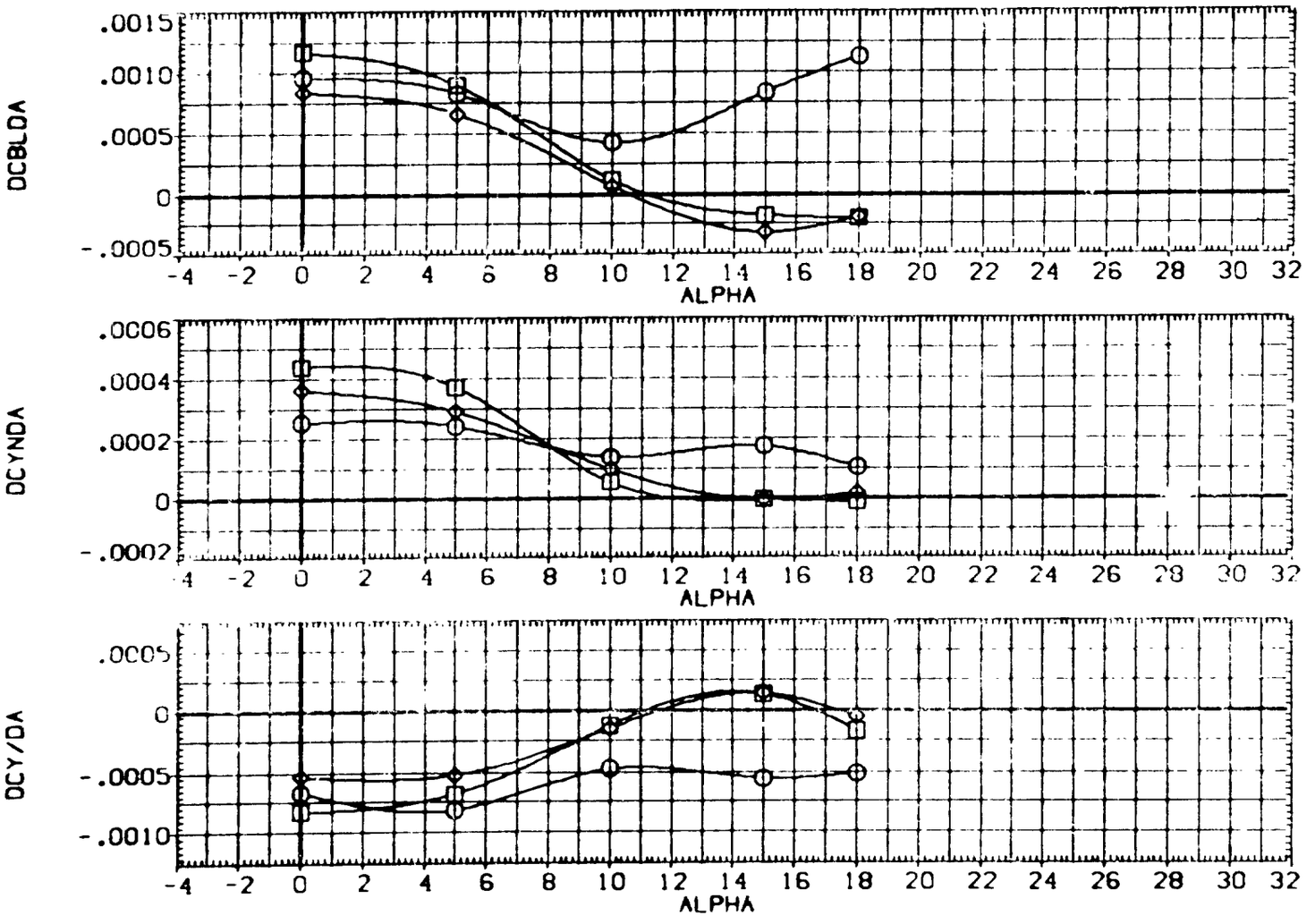
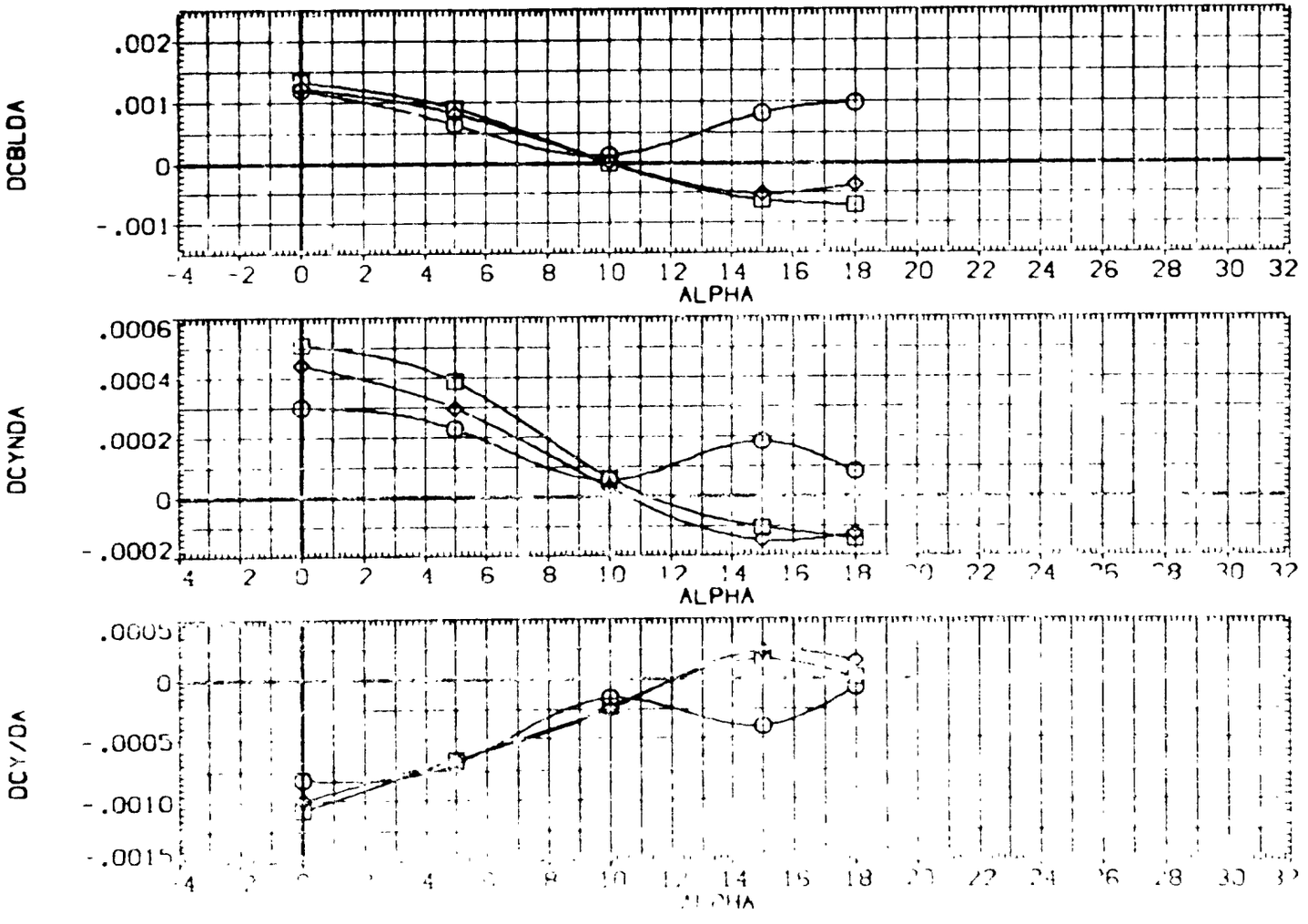


FIGURE 13. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(FULL SPAN ELEVON DEFLEC)

(B)MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(EM1012)	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	-20.000
(EM1010)	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(EM1011)	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(EH1012)		LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	-20.000
(EH1010)		LA 48 8 FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(EH1011)		LA-48 8 FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000

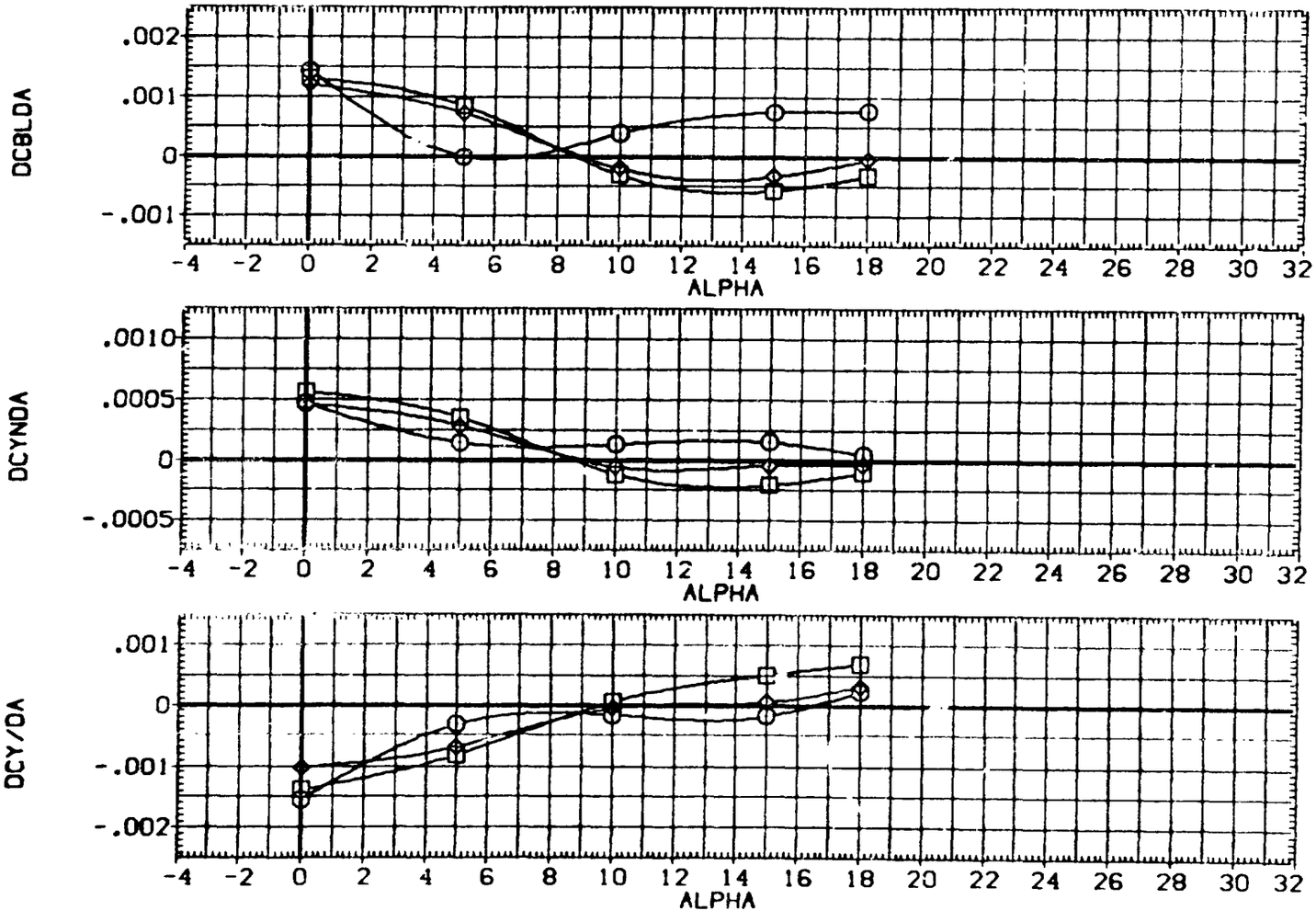
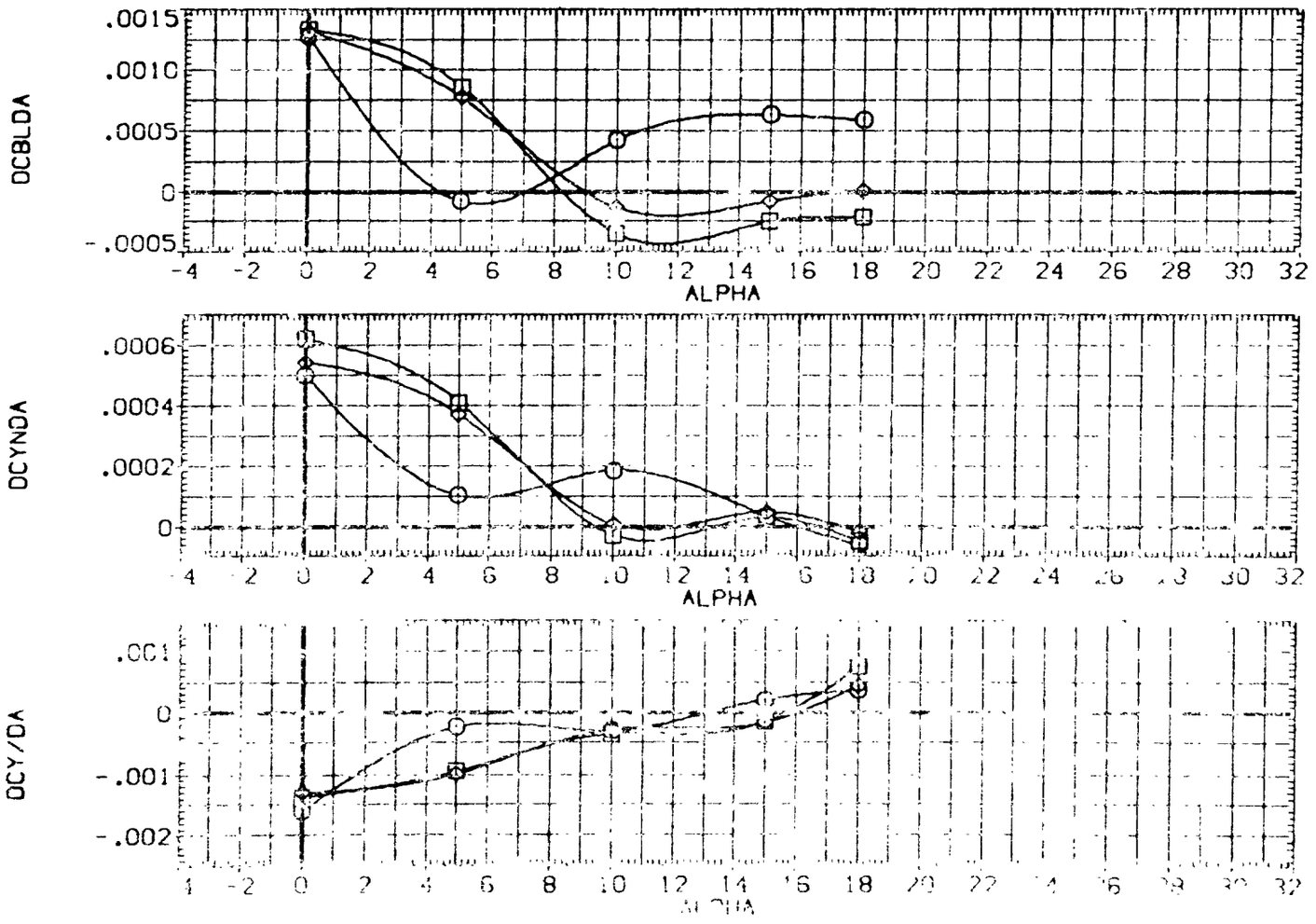


FIGURE 13. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(FULL SPAN ELEVON DEFLEC)

(D)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(EM1012)	LA-48 8-FT TPT 680 RI-0698/139 ORB SPLIT ELEVON	.000	-10.000	-10.000	-20.000
(EM1010)	LA-48 8-FT TPT 680 RI-0698/139 ORB SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(EM1011)	LA-48 8-FT TPT 680 RI-0698/139 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(EH1012)	LA-48 8-FT TPT 680 RI-0898/138 ORB SPLIT ELEVON	.000	-10.000	-10.000	-20.000
(EH1010)	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(EH1011)	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000

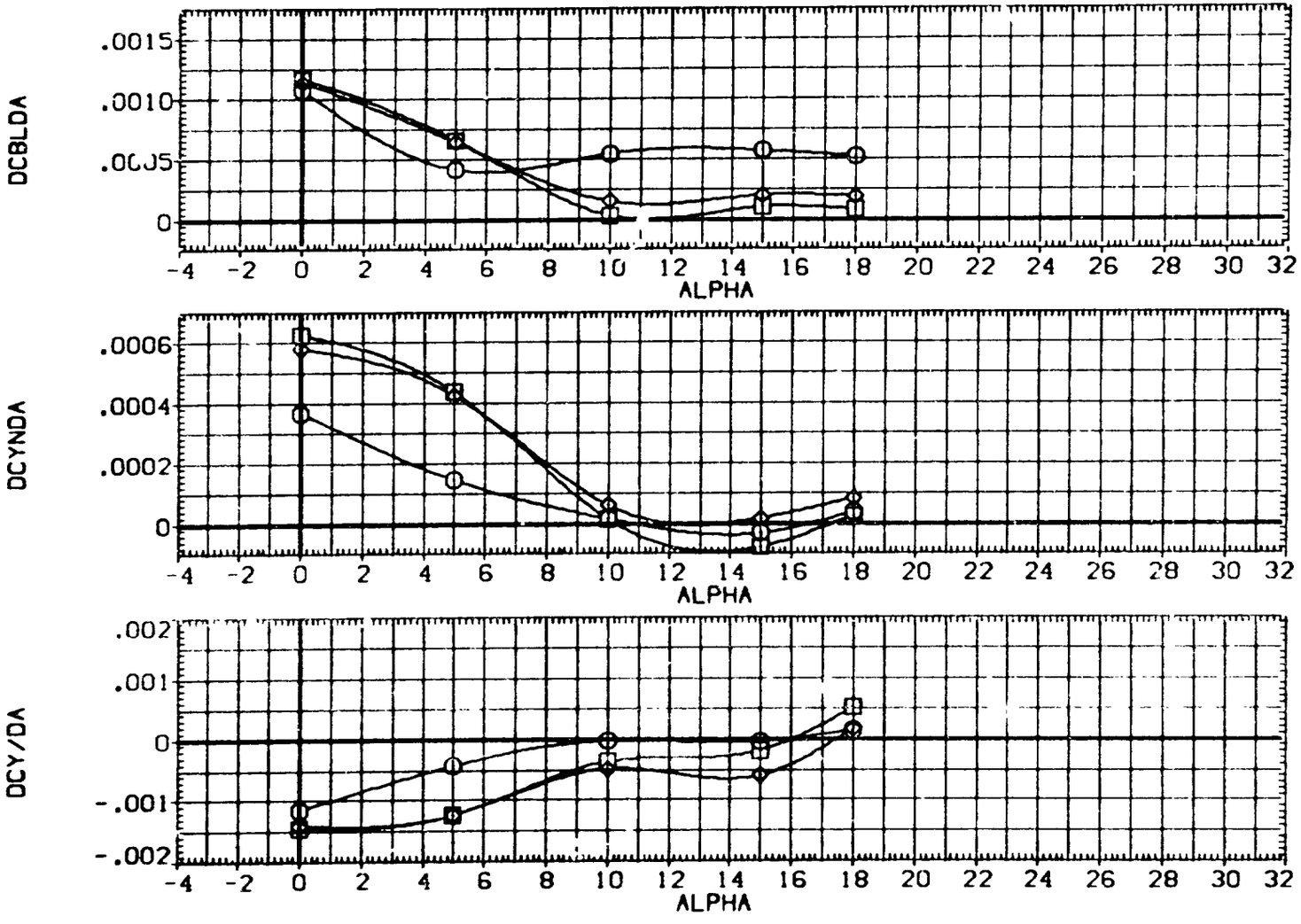
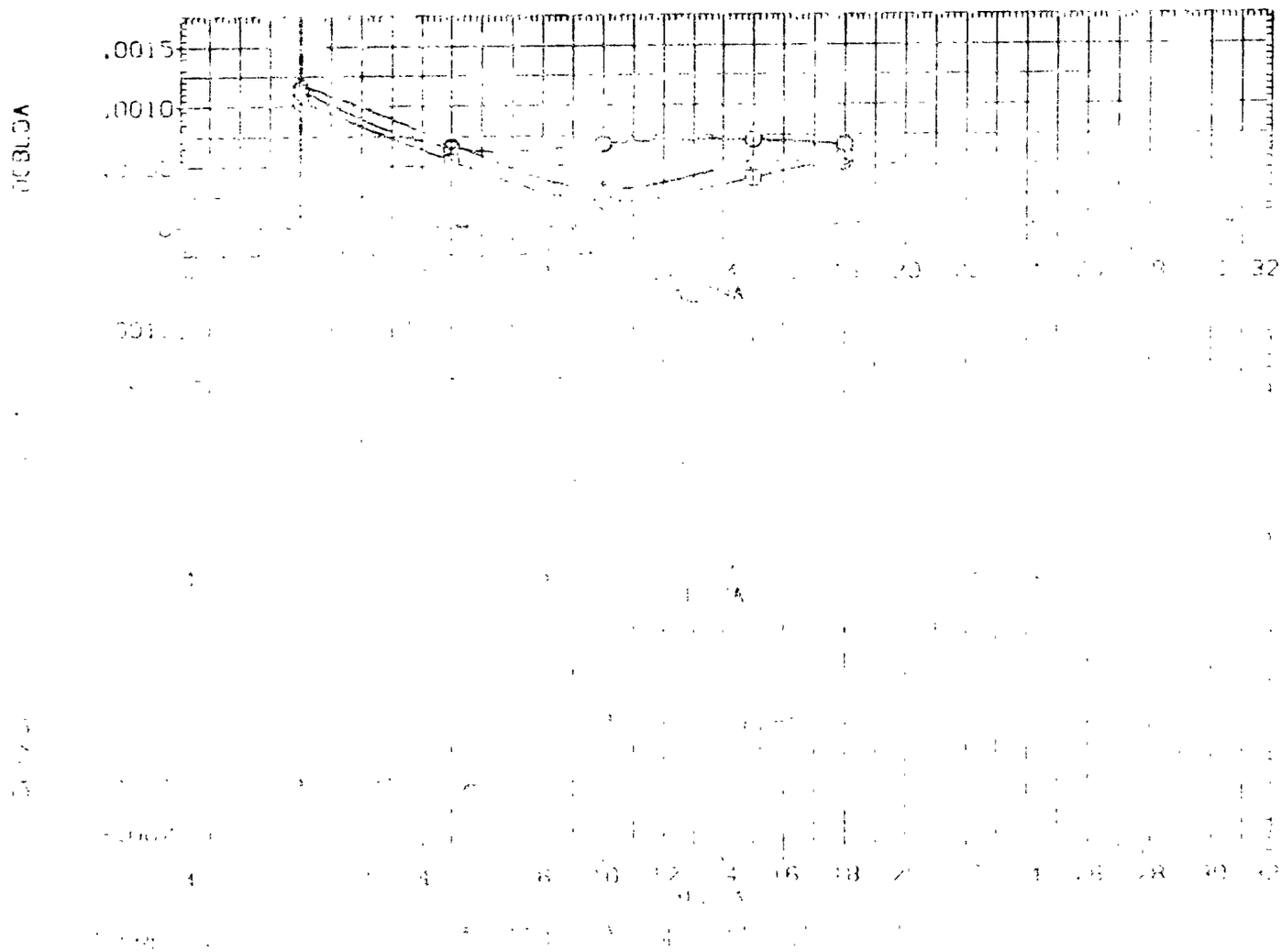


FIGURE 13. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(FULL SPAN ELEVON DEFLEC)

(F)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(EM1012)	○	LA-48 [illegible] RI-0896/138 [illegible] SPLIT ELEVON	.000	-10.000	-10.000	-20.000
(EM1010)	□	LA-48 [illegible] RI-0898/138 [illegible] SPLIT ELEVON	-15.000	-20.000	-20.000	-25.000
(EM1011)	◇	LA-48 [illegible] RI-0898/138 [illegible] SPLIT ELEVON	-10.000	-20.000	-20.000	-30.000



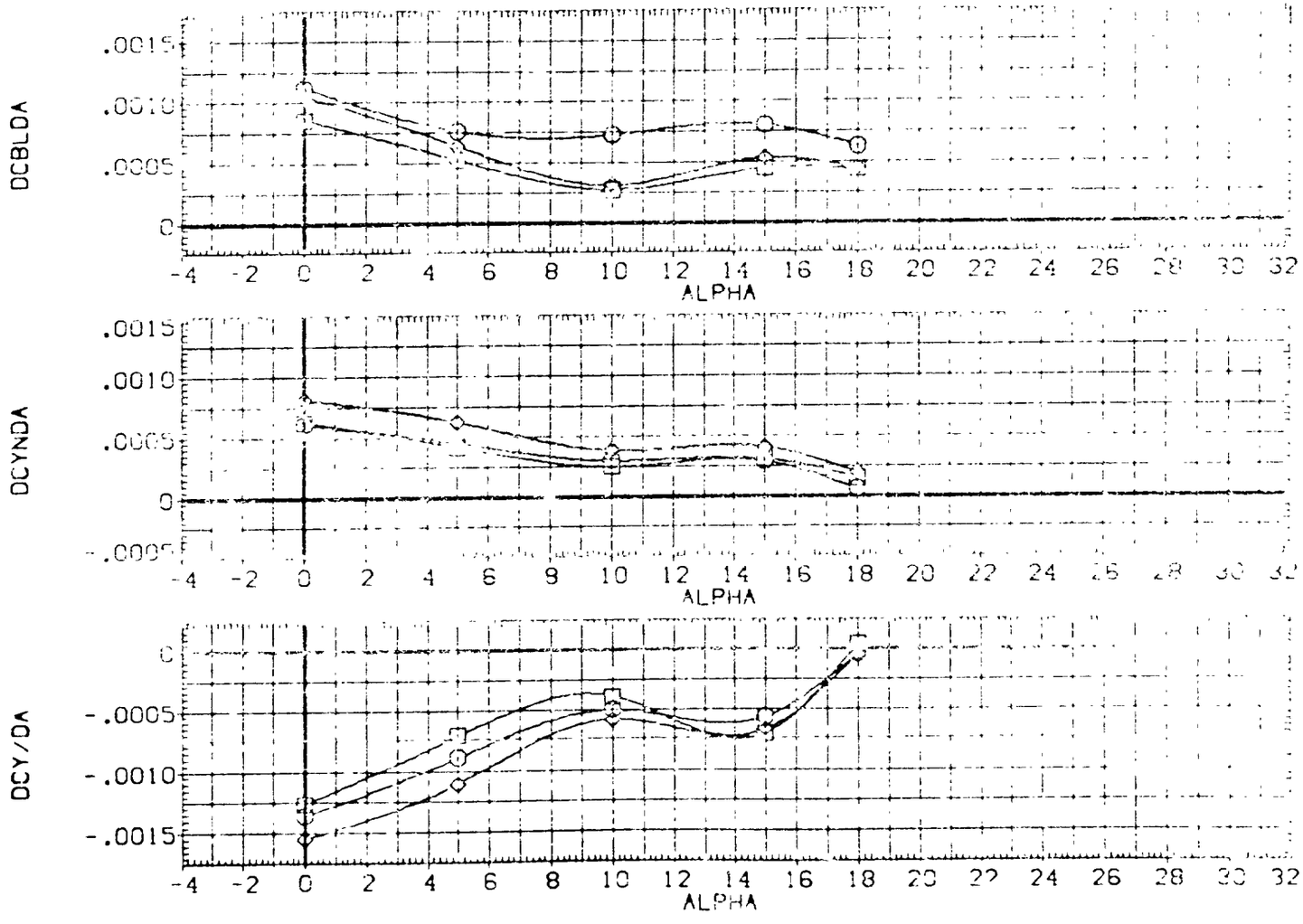


FIGURE 13. OUTBOARD AILERON ROLL CONTROL EFFECTIVENESS(FULL SPAN ELEVON DEFLEC)

(H)MACH = 1.08

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELV-LO	ELV-LI	ELV-RI	ELV-RO
(JHI005)	⊟	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-10.000	-10.000	-10.000	-10.000
(JHI006)	⊟	LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON	-20.000	-20.000	-20.000	-20.000

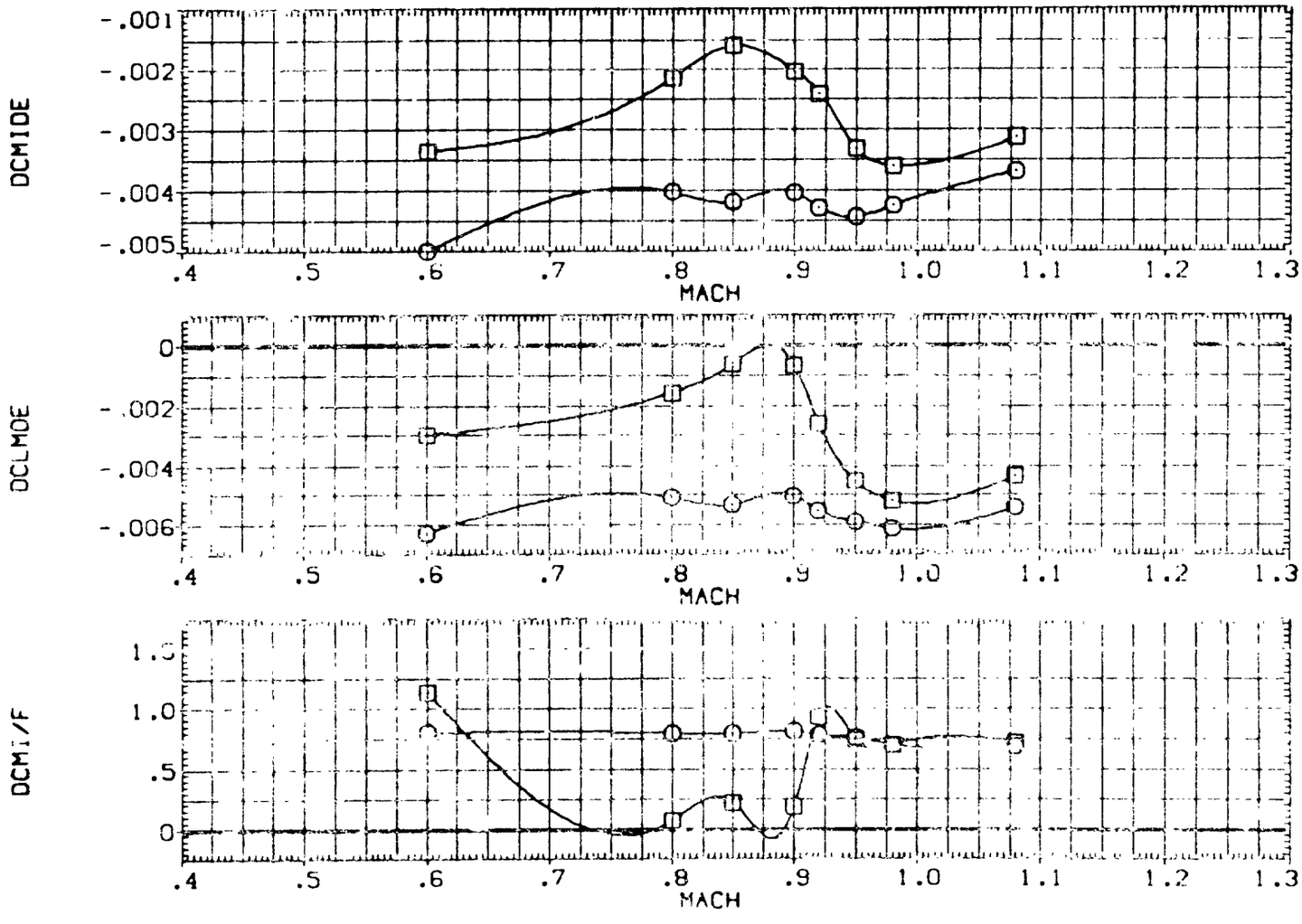


FIGURE 14. COMPARISON OF CONTROL EFFECTIVENESS FOR FULL SPAN AND INBD. ELEVON

APPENDIX

TABULATED SOURCE DATA

Plotted data tabulations are available from DMS on request.

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RHI001)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDFLAP =	.000
SPDBRK =	25.000	AILRON =	.000
ELEVTR =	.000		

RUN NO. 71/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.598	-2.020	.00258	-.06055	.06378	-.00471	-.00306	.00078	-.00609	-.05926	.06587	-.89446
.599	.077	.00514	.03440	.06529	-.00497	-.00298	.00026	-.00827	.03431	.06533	.52519
.601	.777	.00478	.06795	.06516	-.00583	-.00309	.00013	-.00732	.06706	.06608	1.01491
.600	2.314	.00585	.14276	.06285	-.00718	-.00297	.00000	-.00851	.14011	.06857	2.04340
.598	4.291	.00669	.24149	.05741	-.00987	-.00320	-.00039	-.00963	.23652	.07531	3.14044
.600	7.353	.00560	.39864	.04329	-.01348	-.00432	-.00077	-.00587	.38992	.09396	4.14904
.599	8.794	.00520	.47750	.03627	-.01514	-.00476	-.00103	-.00453	.46634	.10994	4.29472
.598	10.592	.00383	.57953	.04554	-.02796	-.00209	.00025	-.00642	.56033	.15101	3.71049
.598	12.764	.00420	.69990	.05013	-.03747	-.00357	-.00108	-.00304	.67153	.20353	3.29945
.600	14.849	.00354	.82154	.05318	-.04722	-.00537	-.00108	-.00207	.78947	.26194	2.97963
.597	16.927	.00467	.93491	.06071	-.05929	-.00333	-.00107	-.00392	.87673	.33029	2.65453
.598	19.171	.00645	1.07367	.06001	-.06302	-.00191	-.00126	-.00619	.99442	.40926	2.42991
.598	21.153	.00729	1.19325	.05798	-.06111	-.00182	-.00133	-.00738	1.09260	.48105	2.25951
.599	22.038	.00746	1.22547	.05713	-.05776	-.00232	-.00115	-.00923	1.11449	.51279	2.17342

RUN NO. 61/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.060	.00284	-.07121	.06685	-.00167	-.00336	.00126	-.00462	-.06876	.06937	-.99122
.801	.072	.00520	.03378	.06848	-.00275	-.00401	.00093	-.00756	.03379	.06852	.49320
.799	2.038	.00640	.13702	.06724	-.00624	-.00426	.00028	-.00709	.13454	.07207	1.86676
.800	4.317	.00586	.26041	.06409	-.01295	-.00464	.00073	-.00679	.25485	.08351	3.05170
.800	6.637	.00621	.37644	.06669	-.01975	-.00412	.00016	-.00655	.36621	.10975	3.33698
.800	8.752	.00515	.48272	.06340	-.02644	-.00515	-.00044	-.00475	.46654	.14204	3.28447
.799	10.765	.00654	.57087	.07452	-.03065	-.00272	-.00068	-.00446	.54690	.17984	3.04097
.799	12.832	.00690	.68892	.07022	-.04056	-.00319	-.00151	-.00226	.65402	.23023	2.84071
.800	15.190	.00833	.83966	.08337	-.05390	-.00347	-.00167	-.00340	.79848	.30047	2.62412
.798	17.457	.01319	.97459	.08854	-.07098	-.00141	-.00135	-.00844	.90324	.37697	2.39669
.799	19.508	.01559	1.05900	.09174	-.08849	-.00164	-.00191	-.01040	.96759	.44009	2.19861
.799	21.660	.01935	1.13279	.09484	-.05272	-.00303	-.00393	-.00952	1.01790	.50626	2.01042
.799	22.546	.01772	1.13787	.09593	-.03393	-.00482	-.00485	-.00414	1.01415	.52490	1.93246

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RHI001)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDFLAP =	.000
SPOBRK =	25.000	AILRON =	.000
ELEVTR =	.000		

RUN NO. 51/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.890	-1.975	.00408	-.04288	.07253	-.01413	-.00421	.00096	-.00058	-.04010	.07396	-.54221
.890	.204	.00670	.06882	.07450	-.01828	-.00482	.00067	-.00811	.06955	.07475	.93044
.891	2.403	.00952	.19510	.07433	-.02702	-.00590	-.00011	-.00831	.19181	.08245	2.32837
.890	4.259	.00998	.28138	.07577	-.02835	-.00477	.00001	-.00911	.27496	.09646	2.85051
.890	6.349	.00977	.39003	.07942	-.03394	-.00498	-.00003	-.00883	.37842	.12339	3.06684
.890	8.790	.00808	.50139	.08296	-.04204	-.00706	-.00059	-.00566	.48293	.15827	3.05125
.849	10.878	.01110	.60420	.08780	-.05048	-.00315	-.00135	-.00623	.57678	.20024	2.88044
.890	12.878	.01215	.71280	.09251	-.06374	-.00318	-.00243	-.00403	.67425	.24905	2.70730
.849	15.246	.01260	.86314	.09636	-.07761	-.00430	-.00124	-.00812	.80743	.31994	2.52371
.890	17.412	.01459	.96952	.10015	-.08392	-.00492	-.00156	-.00921	.89513	.38568	2.32088
.890	19.613	.01986	1.06167	.10329	-.08105	-.00342	-.00235	-.01209	.96540	.45366	2.12800
.890	21.642	.02227	1.13845	.10686	-.07028	-.00462	-.00371	-.01062	1.01879	.51921	1.96220
.890	22.536	.02061	1.13116	.10713	-.04847	-.00852	-.00657	-.00051	1.00373	.53248	1.88501

RUN NO. 41/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-1.986	.00466	-.04318	.08345	-.01737	-.00265	.00147	-.00939	-.04026	.08490	-.47425
.901	.068	.00795	.07055	.09575	-.02536	-.00241	.00147	-.01119	.07045	.08584	.82074
.901	4.398	.01133	.26874	.08811	-.01900	-.00447	.00021	-.01034	.26119	.10846	2.40823
.900	8.546	.01092	.38191	.09151	-.03026	-.00572	-.00030	-.00949	.36910	.13346	2.76575
.901	8.609	.01089	.48753	.09500	-.04426	-.00641	-.00073	-.00721	.46791	.16690	2.80290
.900	10.879	.01096	.62307	.09708	-.06230	-.00666	-.00074	-.00730	.59355	.21293	2.78758
.900	13.030	.01520	.74338	.10239	-.07828	-.00449	-.00270	-.00521	.70113	.26736	2.62255
.899	15.209	.01581	.87614	.10664	-.09490	-.00535	-.00129	-.01013	.81748	.33275	2.45670
.899	17.383	.01683	.99097	.10962	-.10398	-.00520	-.00102	-.01201	.91296	.40068	2.27855
.899	19.548	.02015	1.08983	.11239	-.10311	-.00463	-.00154	-.01365	.99941	.47056	2.10261
.899	21.665	.02405	1.15513	.11882	-.09863	-.00459	-.00349	-.01164	1.02966	.53689	1.91783
.899	22.615	.02381	1.16585	.12040	-.07489	-.00685	-.00407	-.00981	1.02991	.55946	1.84091

LA-48 8-FT TPT 69D RI-0695/139 ORB SPLIT ELEVON (RH1001)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	SDFLAP =	.000
SPOERK =	89.000	AILRON =	.000
ELEVTR =	.000		

RUN NO. 31/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.920	-2.094	.00587	-.04994	.09219	-.01402	.00114	.00219	-.01149	-.04654	.09395	-.49538
.921	.042	.00953	.06905	.09549	-.02279	.00066	.00222	-.01463	.06892	.09558	.72099
.920	2.258	.00992	.18271	.09431	-.02595	-.00197	.00139	-.01243	.17885	.10144	1.76316
.920	4.426	.01063	.27808	.09486	-.02201	-.00482	.00027	-.00971	.26993	.11603	2.32639
.920	6.583	.01291	.39798	.09739	-.03659	-.00436	-.00047	-.00943	.38419	.14238	2.69844
.919	8.744	.01148	.51119	.09968	-.05328	-.00609	-.00046	-.00834	.49009	.17624	2.78082
.920	10.906	.01183	.63695	.10289	-.07127	-.00550	-.00069	-.00799	.60599	.22154	2.73532
.919	13.084	.01666	.76515	.10696	-.08623	-.00465	-.00312	-.00493	.72107	.27740	2.59939
.919	15.283	.01607	.90681	.11133	-.10792	-.00524	-.00122	-.01027	.84540	.34642	2.44039
.918	17.421	.01868	1.01920	.11371	-.11954	-.00507	-.00171	-.01125	.93840	.41364	2.26956
.920	19.586	.02109	1.12040	.11697	-.11940	-.00478	-.00171	-.01355	1.01636	.48578	2.09222
.919	21.706	.02669	1.16920	.12359	-.09935	-.00333	-.00228	-.01716	1.04059	.54725	1.90149
.920	22.615	.02410	1.18819	.12641	-.08911	-.00633	-.00361	-.01099	1.04823	.57359	1.82748

RUN NO. 21/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.949	-2.105	.00075	-.06359	.10847	-.00563	-.00384	.00254	-.00824	-.05966	.11073	-.53876
.950	.079	.00399	.06057	.11061	-.01832	-.00398	.00234	-.01025	.05842	.11069	.54593
.951	2.264	.00590	.18849	.10959	-.03210	-.00340	.00219	-.01133	.18401	.11695	1.57343
.950	4.449	.00725	.31414	.10796	-.04447	-.00288	.00230	-.01290	.30482	.13201	2.30914
.949	6.628	.01007	.42425	.10752	-.05146	-.00241	.00143	-.01252	.40901	.15577	2.62569
.949	8.787	.00813	.54456	.10885	-.06769	-.00344	.00106	-.00996	.52154	.19077	2.73393
.948	10.951	.00793	.66780	.11033	-.08396	-.00377	.00080	-.00997	.63468	.23518	2.69871
.952	13.153	.00988	.80111	.11530	-.10204	-.00419	.00012	-.00957	.75386	.29457	2.55916
.951	15.320	.01536	.93885	.11951	-.12992	-.00370	.00030	-.01379	.87332	.36332	2.40538
.951	17.499	.01826	1.06643	.12486	-.15269	-.00381	-.00172	-.01032	.97353	.43975	2.22748
.949	19.647	.02236	1.15561	.12461	-.14429	-.00350	-.00255	-.01159	1.04643	.50590	2.06944
.951	21.853	.04637	1.24988	.13184	-.12452	-.00090	-.00614	-.02195	1.11100	.59780	1.89074
.950	22.736	.04197	1.24473	.13542	-.09906	-.01142	-.01262	.00106	1.09568	.60596	1.80816

LA40 TABULATED SOURCE DATA

LA-40 8-FT TPT 080 RI-0898/130 CRB SPLIT ELEVON (RHI001)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	.000	BDYLAP =	.000
SPDBRK =	25.000	AILRON =	.000
ELEVTR =	.000		

RUN NO. 11/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.136	.00244	-.07428	.12732	.00590	-.00454	.00179	-.00702	-.06949	.13000	-.53451
.980	.111	.00648	.05332	.13008	-.01051	-.00483	.00161	-.00993	.05306	.13019	.40759
.980	2.155	.00878	.17880	.12939	-.02644	-.00465	.00122	-.01058	.17380	.13622	1.27589
.979	4.476	.00965	.31666	.12738	-.04458	-.00349	.00135	-.01168	.30575	.15170	2.01550
.979	6.711	.00926	.43858	.12791	-.05647	-.00445	.00116	-.01092	.42062	.17829	2.35927
.979	8.815	.00762	.56134	.13100	-.07517	-.00446	.00081	-.00851	.53463	.21547	2.48122
.982	11.033	.00851	.69328	.13853	-.09611	-.00389	.00061	-.00863	.65395	.26864	2.43429
.980	13.122	.01708	.82343	.14090	-.11825	-.00367	-.00127	-.01000	.76995	.32416	2.37519
.981	15.420	.02231	.96580	.14601	-.13724	-.00392	-.00263	-.01030	.89202	.39750	2.24407
.980	17.658	.01358	1.09237	.14938	-.15103	-.00476	-.00088	-.00857	.99559	.47370	2.10172
.979	19.725	.01219	1.21139	.15084	-.16407	-.00529	-.00049	-.00973	1.08940	.55084	1.97771

RUN NO. 1/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.079	-2.103	.00458	-.07118	.14430	.00483	-.00402	.00205	-.00952	-.06584	.14681	-.44847
1.081	.135	.00800	.05538	.14465	-.00906	-.00418	.00169	-.01093	.05504	.14478	.38017
1.080	2.239	.00947	.19149	.14579	-.02702	-.00429	.00137	-.01134	.17565	.15276	1.14984
1.079	4.469	.01057	.31240	.14823	-.04696	-.00304	.00176	-.01303	.29990	.17212	1.74239
1.080	6.799	.00990	.43839	.14923	-.06228	-.00350	.00181	-.01242	.41768	.20001	2.08832
1.078	8.880	.00944	.55211	.15221	-.08041	-.00372	.00127	-.01080	.52200	.23562	2.21544
1.081	11.149	.01062	.68318	.15281	-.09750	-.00376	.00031	-.00885	.64074	.28201	2.27208
1.080	13.383	.01033	.81072	.15473	-.11700	-.00452	-.00001	-.00773	.75336	.33713	2.23460
1.080	15.530	.01105	.93173	.15562	-.13086	-.00458	-.00011	-.00803	.85605	.39939	2.14337
1.077	18.006	.01225	1.07019	.15939	-.14595	-.00440	.00016	-.00992	.96850	.44240	2.00769

LA-48 8-FT TPT 68D RI-0398/139 ORB SPLIT ELEVON (RH1002)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	.000	BOFLAP =	.000
SPOBRK =	25.000		

RUN NO. 72/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.999	-1.929	.00457	-.14240	.06141	.03721	-.00074	.00091	-.00940	-.14058	.06634	-2.11902
.999	.229	.00331	-.04105	.06346	.03641	-.00116	.00071	-.00985	-.04130	.06330	-.65249
.999	2.203	.00682	.05305	.06192	.03485	-.00091	.00033	-.01090	.05063	.06391	.79216
.999	4.242	.00701	.15262	.05871	.03254	-.00113	.00013	-.01061	.14901	.06785	2.19151
.999	6.749	.00668	.28152	.04496	.03121	-.00178	-.00017	-.00956	.27429	.07774	3.52840
.999	8.594	.00586	.37444	.03541	.03193	-.00201	-.00034	-.00760	.36496	.09090	4.01502
.999	10.540	.00525	.48962	.03402	.02126	-.00092	.00036	-.00885	.47440	.12694	3.73724
.999	12.661	.00482	.60052	.04212	.01147	-.00156	-.00014	-.00677	.57669	.17273	3.33873
.999	14.671	.00446	.73088	.04416	.00099	-.00244	-.00033	-.00573	.69587	.22783	3.05434
.997	17.277	.00616	.86106	.05470	-.00193	-.00140	-.00057	-.00771	.80596	.30796	2.61713
.998	19.045	.00644	.97208	.05392	-.01491	-.00076	-.00082	-.00746	.90102	.36890	2.44311
.999	21.023	.00746	1.07740	.05206	-.01409	-.00042	-.00071	-.00950	.98700	.43511	2.26839
.999	21.992	.00845	1.13057	.05104	-.01254	-.00089	-.00091	-.01056	1.02919	.47071	2.18649

RUN NO. 62/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.162	.00275	-.15846	.06604	.04473	-.00204	.00163	-.00756	-.15585	.07197	-2.16554
.901	.095	.00803	-.04465	.06411	.04242	-.00215	.00123	-.00958	-.04876	.06803	-.71678
.900	2.265	.00819	.06459	.06640	.03903	-.00223	.00054	-.00989	.06191	.06890	.89860
.799	4.441	.00846	.19392	.06258	.03376	-.00240	.00047	-.01008	.17852	.07663	2.32958
.799	6.343	.00835	.27788	.06318	.02960	-.00235	.00068	-.01023	.26920	.09350	2.87929
.799	8.577	.00795	.38931	.06568	.02445	-.00257	.00030	-.00974	.37516	.12401	3.04988
.799	10.717	.00725	.48900	.07062	.02114	-.00151	.00030	-.00910	.46635	.16013	2.91229
.799	12.740	.00837	.59130	.07374	.01496	-.00133	-.00046	-.00770	.56048	.20232	2.77031
.798	15.012	.00924	.71920	.07749	.00728	-.00241	-.00105	-.00619	.67459	.26114	2.58324
.797	17.300	.01382	.86660	.08272	-.01463	.00009	-.00106	-.01097	.80280	.33668	2.38445
.799	19.189	.01653	.95412	.08571	-.01656	-.00051	-.00166	-.01211	.87294	.39456	2.21245
.798	21.906	.01941	1.06233	.08911	-.01280	-.00106	-.00389	-.00878	.95201	.47959	1.98510
.799	22.582	.02038	1.08971	.09016	.00743	-.00271	-.00445	-.00917	.95383	.49271	1.93528

LA-48 8-FT TWT 890 R1-0898/139 ORB SPLIT ELEVON (RH1002)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	.000	BOFLAP =	.000
SPOERK =	29.000		

RUN NO. 32/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.849	-2.143	.00454	-.14891	.07134	.04213	-.00433	.00122	-.00781	-.14814	.07686	-1.90142
.850	.054	.00732	-.03369	.07355	.03702	-.00433	.00079	-.00901	-.03396	.07352	-.46197
.850	2.182	.00947	.09565	.07289	.02942	-.00509	.00020	-.00820	.09281	.07609	1.08835
.850	4.476	.01059	.20442	.07325	.02299	-.00478	.00016	-.01012	.19808	.08899	2.22607
.850	6.229	.01023	.29009	.07649	.02043	-.00492	.00016	-.00981	.28007	.10750	2.60525
.850	8.695	.00855	.40697	.08039	.01763	-.00629	-.00036	-.00676	.39014	.14099	2.76719
.849	10.936	.00853	.50917	.08394	.01320	-.00589	-.00071	-.00575	.49332	.17798	2.71562
.850	13.007	.01109	.62070	.08825	.00341	-.00536	-.00149	-.00597	.59491	.22569	2.59138
.849	15.044	.01349	.73078	.09132	-.00465	-.00568	-.00124	-.00694	.68182	.27434	2.44956
.849	17.280	.01559	.85190	.09567	-.01431	-.00445	-.00123	-.01115	.79465	.34428	2.27907
.850	19.459	.01949	.96281	.09858	-.02289	-.00295	-.00224	-.01203	.87498	.41369	2.11305
.850	21.567	.02247	1.05449	.09974	-.02821	-.00412	-.00343	-.01162	.94400	.48038	1.96511
.850	22.498	.02304	1.06731	.10039	-.02991	-.00672	-.00582	-.00316	.94766	.50115	1.89096

RUN NO. 42/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.138	.00425	-.12998	.08467	.03514	-.00412	.00130	-.00754	-.12274	.08931	-1.37432
.901	.058	.00750	-.00045	.08705	.02346	-.00396	.00116	-.00948	-.00053	.08705	-.00614
.900	2.175	.00931	.11208	.08668	.01747	-.00190	.00147	-.01237	.10471	.09087	1.19621
.900	4.346	.01116	.20448	.08877	.02199	-.00238	.00116	-.01305	.19717	.10401	1.89569
.900	6.532	.01035	.31690	.09120	.01656	-.00488	.00048	-.01034	.30447	.12666	2.40391
.899	8.666	.00993	.41890	.09513	.00761	-.00645	.00000	-.00959	.39939	.15710	2.54223
.899	10.836	.01026	.54055	.09693	-.00444	-.00634	-.00006	-.00976	.51262	.19700	2.60207
.901	13.006	.01543	.64907	.10043	-.01590	-.00339	-.00195	-.00767	.60884	.24370	2.49831
.900	15.157	.01459	.78920	.10346	-.02809	-.00377	.00005	-.01305	.71539	.30098	2.37643
.899	17.315	.01716	.88155	.10624	-.03626	-.00435	-.00076	-.01309	.80998	.36345	2.22845
.899	19.477	.02093	.99972	.10907	-.04027	-.00388	-.00146	-.01451	.89672	.43283	2.07177
.899	21.625	.02398	1.07053	.11212	-.03302	-.00440	-.00332	-.01208	.95348	.49475	1.91250
.899	22.591	.02341	1.08145	.11247	-.02535	-.00601	-.00339	-.01153	.96496	.52311	1.84468

LA-48 8-FT TPT 680 RI-0699/139 ORB SPLIT ELEVON (RHI002)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	.000	EDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 32/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.920	-2.128	-.00007	-.12373	.09249	.03470	-.00323	.00213	-.00634	-.12021	.09702	-1.23906
.921	.031	.00442	.00393	.09541	.02071	-.00343	.00255	-.01133	.00384	.09541	.04027
.920	2.235	.00712	.11939	.09475	.01429	-.00161	.00260	-.01375	.11560	.09933	1.16380
.920	4.398	.00773	.21139	.09590	.02249	-.00362	.00209	-.01275	.20344	.11178	1.81998
.920	6.558	.00795	.32791	.09670	.01337	-.00417	.00152	-.01117	.31462	.13350	2.35690
.919	8.733	.00799	.43705	.09995	.00368	-.00642	.00120	-.01003	.41687	.16470	2.53108
.920	10.875	.00819	.53816	.10251	-.01475	-.00619	.00083	-.01030	.52480	.20599	2.56727
.919	13.040	.01566	.67129	.10423	-.02390	-.00341	-.00201	-.00742	.63746	.25300	2.49193
.919	15.230	.01460	.79998	.10762	-.03478	-.00310	.00078	-.01493	.74361	.3.399	2.36927
.920	17.347	.01606	.91374	.11067	-.05321	-.00416	-.00028	-.01323	.83491	.37967	2.21541
.919	19.535	.01996	1.01404	.11332	-.05454	-.00425	-.00122	-.01404	.91779	.44589	2.05435
.919	21.679	.02409	1.08814	.11680	-.04499	-.00383	-.00196	-.01570	.96810	.51032	1.89705
.919	22.650	.02227	1.11261	.11747	-.03645	-.00624	-.00285	-.01163	.99179	.53633	1.82942

RUN NO. 22/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.949	-2.110	.00037	-.12656	.10715	.04462	-.00364	.00290	-.01023	-.12253	.11174	-1.09657
.950	.038	.00700	-.00017	.11028	.02699	-.00364	.00241	-.01249	-.00028	.11028	-.00254
.951	2.258	.00814	.13542	.11011	.00984	-.00247	.00275	-.01484	.13097	.11536	1.13539
.952	4.444	.00899	.25341	.10965	.00351	-.00260	.00292	-.01605	.24423	.12796	1.90870
.951	6.612	.00987	.36250	.10814	-.00310	-.00332	.00212	-.01439	.34764	.14916	2.33067
.953	8.761	.00920	.46304	.10801	-.01932	-.00362	.00179	-.01291	.44595	.16033	2.55619
.949	10.957	.00841	.60728	.10932	-.03539	-.00359	.00209	-.01322	.57544	.22276	2.54325
.949	13.128	.01143	.72943	.11105	-.04694	-.00334	.00042	-.01078	.68515	.27391	2.50225
.949	15.295	.01644	.85129	.11378	-.06614	-.00225	-.00008	-.01359	.79112	.33431	2.36642
.950	17.463	.02090	.97322	.11913	-.08529	-.00300	-.00229	-.01087	.89291	.40474	2.20614
.948	19.633	.02392	1.06994	.12130	-.09292	-.00259	-.00276	-.01224	.96598	.47374	2.04114
.951	21.809	.04402	1.16868	.12779	-.06610	-.00122	-.00653	-.02227	1.03756	.55282	1.87594
.949	22.727	.04542	1.19389	.12993	-.05135	-.00655	-.00765	-.01631	1.04218	.57630	1.80937

LA-48 8-FT TPT 68D RI-0898/139 CRB SPLIT ELEVON (RH1002)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	.000	BDFLAP =	.000
SPOERK =	89.000		

RUN NO. 12/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.179	.00371	-.13911	.12496	.05336	-.00363	.00237	-.01004	-.13426	.13016	-1.03.52
.981	.006	.00801	-.00833	.12912	.03314	-.00380	.00235	-.01336	-.00834	.12912	-.06461
.981	2.179	.00902	.12682	.12983	.01318	-.00349	.00235	-.01415	.12183	.13355	.91219
.980	4.377	.00916	.26379	.12763	.00032	-.00274	.00311	-.01658	.25276	.14827	1.70472
.979	6.710	.00811	.37837	.12816	-.01141	-.00372	.00221	-.01306	.36081	.17149	2.10399
.979	8.149	.00770	.50342	.13133	-.03131	-.00385	.00220	-.01275	.47920	.20751	2.30927
.979	10.987	.01172	.63142	.13[illegible]	-.05084	-.00353	00060	-.01121	.59457	.25079	2.37079
.981	13 165	.01758	.77115	.13777	-.07370	-.00348	-.00093	-.01140	.71950	.30978	2.32264
.979	15.425	.02165	.89714	.14014	-.08485	-.00312	-.00160	-.01290	.82755	.37372	2.21438
.980	17.624	.01303	1.00851	.14528	-.09158	-.00392	.00062	-.01261	.91719	.44381	2.06663

RUN NO. 2/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.079	-2.168	.00578	-.13085	.14674	.05283	-.00321	.00221	-.01044	-.12521	.15158	-.82601
1.080	.031	.00948	-.00123	.14784	.03277	-.00332	.00192	-.01268	-.00131	.14784	-.00885
1.079	2.262	.01199	.13236	.15011	.01080	-.00308	.00182	-.01425	.12633	.15522	.81387
1.079	4.524	.01173	.26004	.15168	-.00536	-.00215	.00245	-.01596	.24727	.17172	1.43995
1.079	6.741	.01105	.37896	.15347	-.02066	-.00301	.00231	-.01507	.35833	.19689	1.81992
1.078	8.911	.01077	.50336	.15376	-.03926	-.00287	.00139	-.01215	.47347	.22988	2.05967
1.079	11.184	.01113	.63316	.15257	-.05738	-.00310	.00079	-.01065	.59154	.27248	2.17092
1.080	13.270	.01144	.75343	.15208	-.07428	-.00380	.00021	-.00922	.69840	.32097	2.17592
1.080	15.607	.01305	.87835	.15182	-.08659	-.00318	-.00006	-.00971	.80512	.38253	2.10473
1.080	17.646	.01423	.97961	.15637	-.09279	-.00365	-.00008	-.01067	.88611	.44597	1.98692

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RHI003)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	.000	BDFLAP =	.000
SPOERK =	25.000		

RUN NO. 73/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.599	-1.899	.00449	-.22284	.08975	.07727	-.00102	.00104	-.00967	-.22041	.07709	-2.85901
.599	-.043	.00642	-.13858	.07157	.07601	-.00103	.00053	-.01091	-.13853	.07168	-1.93270
.600	2.071	.00723	-.03453	.07046	.07411	-.00082	.00027	-.01131	-.03705	.06917	-.53566
.599	4.287	.00780	.07291	.06486	.07197	-.00094	-.00005	-.01121	.06785	.07013	.96756
.599	6.223	.00763	.15608	.05669	.07258	-.00130	-.00026	-.01040	.15896	.07436	2.13767
.599	8.415	.00685	.27493	.04600	.07512	-.00159	-.00040	-.00887	.26524	.08574	3.09350
.598	10.632	.00527	.39993	.04132	.06767	-.00154	-.00065	-.00586	.38544	.11440	3.36934
.599	12.888	.00550	.52423	.04593	.05935	-.00167	-.00021	-.00757	.50078	.16171	3.09684
.598	14.664	.00609	.64099	.04731	.04864	-.00131	-.00046	-.00780	.60813	.20804	2.92319
.598	16.863	.00634	.73580	.05818	.04085	-.00126	-.00045	-.00830	.68730	.26910	2.55404
.597	18.796	.00714	.85906	.05753	.03231	-.00053	-.00070	-.00890	.79471	.33125	2.39915
.598	20.902	.00762	.96435	.05542	.03276	-.00108	-.00078	-.00955	.89980	.40297	2.23294
.598	22.037	.00822	1.04422	.05496	.03313	-.00134	-.00085	-.01039	.94731	.44274	2.13967

RUN NO. 63/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.798	-2.077	.00403	-.22398	.07561	.08389	-.00212	.00123	-.00764	-.22309	.08375	-2.66376
.801	.019	.00744	-.12239	.07775	.07998	-.00238	.00084	-.00975	-.12241	.07771	-1.57530
.800	2.131	.00919	-.01411	.07639	.07551	-.00256	.00004	-.00937	-.01694	.07592	-.22343
.799	4.337	.00981	.10645	.07213	.07002	-.00287	-.00013	-.00920	.10069	.07998	1.25897
.799	6.448	.00880	.22238	.07166	.06481	-.00299	.00003	-.00873	.21292	.09618	2.21378
.799	8.289	.00814	.37325	.07444	.05452	-.00314	-.00022	-.00740	.35634	.13371	2.66507
.799	10.437	.00780	.45897	.07766	.04755	-.00265	-.00029	-.00686	.43609	.16255	2.68282
.799	13.449	.00949	.57704	.08169	.04836	-.00209	-.00110	-.00620	.54221	.21365	2.53782
.799	14.944	.00983	.64758	.08457	.04780	-.00320	-.00128	-.00607	.60386	.24871	2.42802
.798	17.196	.01375	.79489	.08893	.02773	-.00024	-.00129	-.01017	.73307	.31995	2.29119
.797	19.687	.01769	.89891	.09223	.02889	-.00019	-.00177	-.01305	.81529	.38967	2.09225
.798	21.437	.01978	.96927	.09394	.03699	-.00079	-.00318	-.01119	.86789	.44168	1.96498
.798	22.699	.02108	.99576	.09547	.05473	-.00170	-.00427	-.00949	.88179	.47234	1.86685

LA-48 8-FT TPT 690 RI-0898/139 ORB SPLIT ELEVON (RH1003)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 53/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.850	-2.126	.00404	-.22397	.08068	.08494	-.00461	.00084	-.00620	-.22082	.08893	-2.48301
.851	.053	.00789	-.10788	.08309	.07779	-.00469	.00037	-.00826	-.10796	.08299	-1.30077
.850	2.189	.01017	.01490	.08181	.06889	-.00525	-.00022	-.00859	.01176	.08232	.14287
.850	4.468	.01060	.14449	.08061	.06022	-.00553	-.00061	-.00784	.13777	.09161	1.50382
.850	6.512	.01000	.25065	.08402	.05397	-.00576	-.00025	-.00838	.23950	.11190	2.14023
.850	8.645	.00909	.36473	.08645	.04461	-.00624	-.00052	-.00678	.34759	.14029	2.47764
.850	10.891	.00969	.48683	.09105	.03545	-.00617	-.00083	-.00647	.46086	.18139	2.54064
.850	12.996	.01039	.58153	.09504	.03288	-.00593	-.00118	-.00613	.54527	.22338	2.44098
.851	15.397	.01274	.69424	.10027	.02971	-.00433	-.00075	-.00975	.64270	.28099	2.28725
.851	17.207	.01498	.78407	.10374	.02236	-.00418	-.00105	-.01107	.71829	.33105	2.16973
.848	19.335	.01916	.88332	.10493	.02039	-.00309	-.00200	-.01248	.79875	.39147	2.04038
.849	21.452	.02152	.97345	.10710	.02788	-.00385	-.00316	-.01153	.86684	.45570	1.90224
.849	22.468	.02345	.99257	.10793	.04005	-.00509	-.00483	-.00856	.87598	.47907	1.82850

RUN NO. 43/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.190	.00499	-.21582	.09185	.08872	-.00508	.00096	-.00714	-.21215	.10003	-2.12083
.901	-.004	.00840	-.09078	.09422	.07666	-.00477	.00045	-.00852	-.09077	.09423	-.96325
.900	2.154	.01016	.03718	.09377	.06401	-.00441	.00017	-.00919	.03363	.09510	.35361
.900	4.345	.01114	.15113	.09482	.05956	-.00362	.00035	-.01060	.14351	.10599	1.35398
.900	6.517	.01099	.27119	.09734	.05008	-.00618	-.00017	-.00994	.25839	.12749	2.02676
.900	8.681	.01064	.39317	.10187	.03416	-.00718	-.00019	-.00862	.37329	.16005	2.33237
.900	10.841	.01071	.50778	.10567	.02297	-.00664	-.00032	-.00834	.47882	.19929	2.40264
.900	12.993	.01162	.60865	.10793	.02015	-.00603	-.00106	-.00701	.56880	.24202	2.35025
.900	15.129	.01470	.70682	.11172	.01556	-.00395	.00009	-.01329	.65316	.29233	2.23433
.899	17.298	.01688	.81151	.11419	.00791	-.00405	-.00079	-.01276	.74091	.35019	2.11572
.899	19.444	.02135	.92104	.11721	.00448	-.00289	-.00115	-.01589	.82949	.41713	1.98858
.901	21.600	.02403	1.00529	.12006	.01082	-.00392	-.00279	-.01356	.89050	.48171	1.84962
.900	22.554	.02484	1.02832	.11943	.01948	-.00507	-.00285	-.01423	.90202	.50395	1.78990

LA-48 8-FT TPT 68D RI-0898/139 ORB SPLIT ELEVON (RHI003)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 33/ 0

MACH	ALPH/	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.920	-2.163	.00449	-.21196	.09847	.09160	-.00544	.00121	-.00739	-.20809	.10640	-1.95570
.921	.012	.00735	-.07918	.10121	.07575	-.00545	.00104	-.00926	-.07921	.10119	-.78272
.920	2.211	.00982	.04763	.10097	.06209	-.00390	.00096	-.01108	.04370	.10273	.42540
.920	4.368	.01139	.16154	.10208	.05872	-.00425	.00092	-.01230	.15330	.11409	1.34374
.920	6.553	.01036	.28169	.10334	.04884	-.00558	.00052	-.01028	.26805	.13481	1.98838
.919	8.705	.01026	.40212	.10665	.03173	-.00714	.00054	-.01029	.38134	.16628	2.29332
.919	10.881	.01018	.52169	.11032	.01731	-.00617	.00052	-.01024	.49148	.20682	2.37640
.920	13.038	.01270	.63389	.11280	.00976	-.00531	-.00109	-.00762	.59210	.25290	2.34130
.919	15.209	.01536	.73709	.11627	.00200	-.00323	.00069	-.01539	.68077	.30557	2.22784
.919	17.343	.01693	.84533	.11871	-.00851	-.00367	-.00015	-.01434	.77151	.36531	2.11194
.919	19.503	.02020	.94643	.12166	-.01015	-.00323	-.00074	-.01568	.85151	.43065	1.97728
.918	21.634	.02506	1.02212	.12331	-.00249	-.00303	-.00190	-.01659	.90466	.49145	1.84079
.917	22.605	.02414	1.05044	.12394	.00735	-.00539	-.00296	-.01302	.92211	.51817	1.77954

RUN NO. 23/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.950	-2.147	.00498	-.21489	.11078	.10652	-.00429	.00162	-.00491	-.21039	.11973	-1.77200
.951	-.069	.00869	-.08347	.11290	.08453	-.00452	.00164	-.01197	-.08333	.11300	-.73741
.951	2.242	.01108	.06230	.11372	.06267	-.00417	.00178	-.01431	.05781	.11607	.49802
.950	4.404	.01113	.18468	.11347	.05135	-.00396	.00158	-.01347	.17542	.12732	1.37786
.949	6.580	.01157	.30430	.11476	.03959	-.00399	.00149	-.01390	.28914	.14887	1.94223
.949	8.761	.00964	.43351	.11638	.02185	-.00445	.00126	-.01170	.41072	.18105	2.26949
.949	10.953	.00938	.56604	.11896	.00089	-.00368	.00168	-.01279	.53313	.22435	2.37633
.950	13.105	.01212	.68259	.11955	-.01062	-.00335	.00029	-.01036	.63771	.27121	2.35134
.952	15.285	.02197	.79650	.12324	-.02327	-.00249	-.00129	-.01449	.73583	.32896	2.23754
.950	17.422	.01922	.89579	.12585	-.03590	-.00208	-.00068	-.01426	.81702	.38427	2.10424
.950	19.625	.02403	1.01098	.12991	-.04003	-.00161	-.00236	-.01357	.90852	.46191	1.96710
.948	21.797	.04638	1.10259	.13461	-.02044	-.00047	-.00615	-.02202	.97378	.53449	1.82220
.950	22.700	.04729	1.13208	.13490	-.01372	-.00435	-.00561	-.02456	.99232	.56133	1.76779

LA-49 8-FT TPT 680 R1-0898/139 ORB SPLIT ELEVON (RH1003)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	.000	BDFLAP =	.000
SPOBRK =	25.000		

RUN NO. 13/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.141	.00580	-.20872	.12847	.10684	-.00400	.00184	-.01010	-.20377	.13617	-1.49642
.980	-.031	.00894	-.08116	.13294	.08675	-.00419	.00159	-.01181	-.08109	.13298	-.60977
.980	2.232	.01127	.06228	.13453	.06447	-.00416	.00155	-.01352	.05699	.13685	.41644
.980	4.389	.01042	.18754	.13658	.05057	-.00378	.00177	-.01354	.17654	.15053	1.17277
.979	6.736	.00978	.32425	.13790	.03180	-.00395	.00178	-.01305	.30583	.17498	1.74785
.979	8.729	.00908	.44882	.14288	.01094	-.00429	.00169	-.01230	.42194	.20934	2.01553
.981	10.991	.00882	.58732	.14725	-.01351	-.00411	.00162	-.01195	.54847	.25613	2.13807
.982	13.100	.01756	.72243	.14898	-.03713	-.00397	-.00150	-.00966	.66986	.30885	2.16991
.980	15.294	.02215	.84279	.14811	-.04734	-.00275	-.00162	-.01319	.77388	.36516	2.11929
.980	17.663	.01268	.95670	.15153	-.05043	-.00348	.00039	-.01223	.86564	.43462	1.99170

RUN NO. 3/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.081	-2.239	.00796	-.19931	.15660	.10051	-.00318	.00137	-.00993	-.19304	.16427	-1.17512
1.081	-.031	.01049	-.06913	.15902	.07970	-.00334	.00168	-.01300	-.06904	.15906	-.43690
1.080	2.236	.01309	.06959	.16020	.05643	-.00315	.00181	-.01501	.06329	.16279	.38875
1.080	4.477	.01232	.19832	.16295	.03868	-.00309	.00202	-.01511	.18499	.17793	1.03970
1.081	6.623	.01187	.32073	.16548	.01930	-.00315	.00211	-.01507	.29950	.20137	1.48737
1.080	8.804	.01082	.44905	.16868	-.00285	-.00365	.00171	-.01313	.41794	.23542	1.77531
1.079	11.101	.01125	.58692	.16718	-.02568	-.00355	.00111	-.01172	.54375	.27705	1.96261
1.080	13.232	.01207	.71042	.16333	-.04336	-.00357	.00032	-.01002	.65457	.32170	2.03474
1.078	15.354	.01292	.82964	.16006	-.05632	-.00311	.00024	-.01052	.75765	.37403	2.02567
1.079	17.675	.01377	.93121	.16257	-.05795	-.00280	.00025	-.01131	.83789	.43763	1.91463

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RH1004)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-30.000	ELV-RI =	-30.000
ELV-RO =	.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 74/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.600	-2.181	.00394	-.27860	.08523	.09698	-.00253	.00037	-.00684	-.27516	.09577	-2.87300
.599	-.083	.00625	-.17998	.08824	.09480	-.00236	-.00007	-.00888	-.17990	.08940	-2.03501
.599	.173	.00664	-.17292	.08805	.09433	-.00227	-.00020	-.00905	-.17319	.08753	-1.97866
.599	2.045	.00780	-.09166	.08730	.09260	-.00290	-.00096	-.00945	-.09472	.08433	-1.00464
.599	4.139	.00780	.02196	.08235	.09112	-.00291	-.00122	-.00770	.01586	.08371	.18944
.599	5.945	.00780	.10407	.07606	.09156	-.00330	-.00142	-.00715	.09578	.08626	1.11033
.599	8.339	.00669	.22731	.06351	.09282	-.00388	-.00169	-.00476	.21566	.09598	2.24913
.598	10.325	.00599	.33581	.05622	.09396	-.00341	-.00163	-.00396	.32030	.11550	2.77325
.598	12.539	.00551	.45807	.06157	.09241	-.00430	-.00151	-.00369	.43378	.15255	2.71873
.599	14.395	.00537	.56921	.06382	.09530	-.00416	-.00157	-.00335	.53547	.20333	2.63354
.598	16.748	.00580	.67732	.07426	.09057	-.00217	-.00056	-.00715	.62719	.26629	2.35527
.598	18.664	.00560	.79226	.07326	.08670	-.00092	-.00017	-.00810	.72715	.32294	2.25166
.597	20.928	.00737	.91200	.07341	.08649	-.00036	-.00038	-.01037	.82636	.39462	2.09409
.598	21.994	.00818	.96926	.07426	.08932	-.00009	-.00064	-.01093	.87691	.43196	2.01663

RUN NO. 64/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.293	.00410	-.29438	.08764	.10995	-.00243	.00149	-.00845	-.29064	.09935	-2.92554
.800	.088	.00779	-.16905	.08978	.10266	-.00211	.00076	-.00939	-.16919	.08952	-1.88992
.800	2.103	.00980	-.06611	.08851	.09829	-.00249	.00038	-.01070	-.06931	.08602	-.80573
.799	4.326	.00939	.03979	.08479	.09483	-.00271	.00008	-.00943	.04326	.08830	.48990
.799	6.256	.00878	.15961	.08267	.09330	-.00325	.00009	-.00804	.14954	.09249	1.49403
.799	8.568	.00819	.29424	.08318	.09362	-.00316	-.00009	-.00783	.27154	.12505	2.17226
.799	10.615	.00845	.41556	.08821	.09660	-.00309	-.00020	-.00790	.39257	.16128	2.43405
.799	12.922	.00852	.54072	.09441	.09727	-.00265	-.00053	-.00695	.50762	.20620	2.46184
.799	14.929	.01011	.62797	.09529	.09269	-.00299	-.00139	-.00605	.59223	.25345	2.29362
.798	17.219	.01464	.77498	.09425	.09181	-.00091	-.00195	-.00912	.71116	.32325	2.20002
.798	19.321	.01564	.87377	.10132	.09029	-.00091	-.00079	-.01394	.79153	.39471	2.05619
.798	21.194	.02034	.93295	.10243	.08989	-.00111	-.00312	-.01195	.83291	.43290	1.92424
.798	22.673	.02335	.97150	.10518	.08746	-.00116	-.00453	-.01093	.85597	.47154	1.81506

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RH1004)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-30.000	ELV-RI =	-30.000
ELV-RO =	.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 54/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.850	-2.193	.00398	-.28[illegible]	.09238	.11548	-.00408	.00115	-.00705	-.28609	.10341	-2.76652
.850	-.074	.00797	-.16897	.09388	.10508	-.00388	.00073	-.00941	-.16895	.09410	-1.79441
.850	2.155	.01115	-.04429	.09309	.09629	-.00430	.00010	-.01042	-.04776	.09136	-.52283
.850	4.282	.01097	.07831	.09142	.08931	-.00491	-.00018	-.00946	.06928	.09687	.71518
.850	6.481	.01008	.20360	.09147	.07811	-.00546	-.00025	-.00847	.19197	.11387	1.68596
.848	8.753	.00978	.33515	.09379	.06522	-.00589	-.00040	-.00782	.31697	.14369	2.20591
.849	10.799	.01028	.45352	.09751	.05350	-.00538	-.00038	-.00936	.42725	.18068	2.36470
.849	12.930	.01068	.56427	.10372	.04607	-.00434	-.00048	-.00729	.52675	.22735	2.31691
.850	15.203	.01376	.67639	.10740	.03861	-.00444	-.00107	-.00972	.62456	.28102	2.22247
.850	17.200	.01379	.78129	.10875	.02779	-.00503	-.00016	-.01262	.71419	.33492	2.13238
.848	19.355	.01904	.86770	.11076	.02832	-.00282	-.00197	-.01245	.78209	.39180	1.99613
.849	21.465	.02367	.95660	.11234	.03319	-.00374	-.00359	-.01232	.84896	.45507	1.86556
.849	22.445	.02465	.97984	.11457	.04316	-.00431	-.00471	-.01009	.86169	.47992	1.79550

RUN NO. 44/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.241	.00491	-.29614	.10322	.12420	-.00399	.00142	-.00946	-.29189	.11433	-2.46355
.900	-.054	.00779	-.15926	.10432	.11108	-.00378	.00048	-.00929	-.15916	.10447	-1.52346
.900	2.124	.01133	-.03272	.10341	.09919	-.00325	.00041	-.01091	-.03653	.10212	-.35770
.900	4.317	.01190	.09420	.10311	.09001	-.00359	.00027	-.01099	.08617	.10991	.78403
.900	6.478	.01108	.21906	.10509	.07693	-.00549	.00012	-.00990	.20492	.12902	1.58750
.900	8.667	.01116	.35078	.10922	.05972	-.00670	-.00037	-.00852	.33032	.16043	2.05346
.901	10.843	.01188	.48214	.11460	.04224	-.00592	-.00068	-.00927	.45198	.20326	2.22364
.900	12.944	.01266	.58546	.11752	.03618	-.00554	-.00145	-.00675	.54409	.24606	2.21121
.901	15.154	.01582	.69480	.12184	.02888	-.00503	-.00118	-.01043	.63879	.29923	2.13475
.898	17.301	.01900	.79448	.12350	.02005	-.00498	-.00217	-.01050	.72181	.35419	2.03792
.900	19.414	.02155	.89622	.12357	.01513	-.00266	-.00142	-.01524	.80419	.41444	1.94044
.900	21.602	.02421	.99096	.12590	.01511	-.00399	-.00298	-.01329	.87501	.48189	1.81579
.899	22.339	.02446	1.01370	.12709	.02175	-.00493	-.00296	-.01373	.89757	.50592	1.75436

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RHI004)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-30.000	ELV-RI =	-30.000
ELV-RO =	.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 34/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.920	-2.216	.00508	-.28591	.10946	.12988	-.00443	.00155	-.00891	-.28146	.12044	-2.33706
.922	-.021	.00480	-.15467	.11122	.11533	-.00401	.00110	-.01063	-.15463	.11128	-1.38955
.920	2.152	.01119	-.02487	.10975	.10091	-.00367	.00065	-.01129	-.02498	.10874	-.26648
.919	4.328	.01120	.10281	.11006	.09104	-.00427	.00054	-.01101	.09421	.11751	.80174
.920	6.504	.01131	.22677	.11218	.07775	-.00601	.00019	-.01008	.21261	.13715	1.55019
.920	8.688	.01112	.36028	.11596	.06052	-.00676	-.00033	-.00939	.33863	.16905	2.00317
.919	10.866	.01207	.49438	.12131	.03960	-.00558	-.00070	-.00818	.46265	.21233	2.17886
.920	13.022	.01388	.60376	.12390	.02469	-.00519	-.00166	-.00693	.56031	.25676	2.18229
.919	15.186	.01528	.71724	.12815	.01882	-.00536	-.00042	-.01197	.65463	.31156	2.11401
.919	17.325	.01955	.81746	.13017	.00707	-.00476	-.00178	-.01179	.74161	.36770	2.01689
.919	19.471	.02335	.91796	.13254	.00409	-.00337	-.00224	-.01415	.82128	.43094	1.90577
.919	21.619	.02541	.99972	.13339	.00854	-.00350	-.00244	-.01643	.88025	.49234	1.78791
.919	22.584	.02493	1.02623	.13523	.01642	-.00544	-.00321	-.01292	.89560	.51898	1.72570

RUN NO. 24/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.950	-2.229	.00561	-.28430	.12196	.14210	-.00315	.00160	-.00837	-.27934	.13292	-2.10147
.951	-.029	.00873	-.14966	.12339	.12401	-.00321	.00113	-.01047	-.14960	.12346	-1.21167
.951	2.165	.01073	-.01240	.12234	.10603	-.00330	.00097	-.01132	-.01701	.12179	-.13969
.950	4.360	.01116	.11613	.12278	.09093	-.00363	.00079	-.01142	.10646	.13125	.81111
.949	6.549	.01150	.24958	.12570	.07342	-.00444	.00070	-.01148	.23362	.15335	1.52344
.951	8.752	.01013	.39004	.12914	.05058	-.00522	.00020	-.00989	.36505	.18009	1.95655
.949	10.930	.01034	.52038	.13101	.03104	-.00410	.00023	-.00924	.49610	.22730	2.13956
.947	13.085	.01439	.64323	.13279	.01635	-.00313	-.00052	-.01045	.59647	.27436	2.16930
.951	15.266	.02356	.76351	.13696	-.00094	-.00267	-.00196	-.01388	.70051	.33317	2.10257
.950	17.410	.01969	.85876	.13984	-.01345	-.00330	-.00166	-.01173	.77758	.39037	1.99189
.952	19.568	.02507	.96984	.14492	-.01791	-.00242	-.00309	-.01225	.86529	.46138	1.87546
.950	21.759	.04602	1.05887	.15127	.00264	-.00143	-.00656	-.02041	.92734	.53302	1.73979
.950	22.668	.04752	1.08629	.15006	.01100	-.00457	-.00575	-.02443	.94455	.55712	1.69540

LA-48 8-FT TPT 68G RI-0898/139 ORB SPLIT ELEVON (RHI004)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-30.000	ELV-RI =	-30.000
ELV-RO =	.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 14/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.172	.00699	-.28001	.14349	.14536	-.00286	.00100	-.00452	-.27437	.15400	-1.78159
.981	-.044	.01014	-.14897	.14609	.12649	-.00314	.00088	-.01063	-.14886	.14620	-1.01815
.981	2.215	.01188	-.00283	.14532	.10513	-.00383	.00104	-.01248	-.00844	.14510	-.05817
.980	4.448	.01309	.13070	.14698	.08666	-.00408	.00113	-.01374	.11891	.15668	.75896
.979	6.574	.01203	.26315	.15019	.06579	-.00416	.00103	-.01263	.24423	.17933	1.36191
.980	8.778	.01092	.40155	.15991	.04198	-.00460	.00045	-.01506	.37245	.21930	1.69834
.980	10.921	.01069	.53307	.16583	.02102	-.00423	.00035	-.00962	.49200	.26383	1.86484
.980	13.131	.01981	.67981	.16517	-.00568	-.00406	-.00226	-.00922	.62451	.31529	1.98073
.979	15.368	.02510	.80365	.16311	-.01769	-.00300	-.00252	-.01295	.73169	.37026	1.97612
.980	17.648	.01387	.92878	.16308	-.03059	-.00402	.00032	-.01243	.83560	.43699	1.91224

RUN NO. 4/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.079	-2.256	.00949	-.26401	.17444	.13667	-.00289	.00068	-.00498	-.25693	.18470	-1.39109
1.080	-.022	.01306	-.12843	.17465	.11472	-.00303	.00083	-.01205	-.12837	.17470	-.73479
1.080	2.127	.01496	.00297	.17515	.09379	-.00363	.00083	-.01344	-.00353	.17514	-.02016
1.080	4.310	.01506	.14161	.18127	.07309	-.00360	.00083	-.01354	.12692	.19184	.66159
1.081	6.677	.01423	.27409	.18374	.04965	-.00300	.00125	-.01421	.25087	.21436	1.17033
1.081	8.790	.01276	.40290	.18712	.02804	-.00358	.00046	-.01092	.36947	.24648	1.49900
1.080	10.946	.01240	.53216	.18885	.00713	-.00384	.00043	-.01052	.48662	.28546	1.69877
1.080	13.266	.01199	.67422	.18558	-.01741	-.00363	.00069	-.01109	.61364	.33534	1.82988
1.080	15.415	.01395	.79973	.17507	-.03373	-.00375	.00005	-.01073	.72443	.39134	1.89969
1.078	17.730	.01468	.91347	.17252	-.04314	-.00337	.00003	-.01139	.81754	.44251	1.84751

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RH1005)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-10.000	BDFLAP =	.000
SPOBRK =	25.000	AILRON =	.000
ELEVTR =	-10.000		

RUN NO. 75/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.998	-2.064	.00429	-.20902	.06161	.06888	-.00162	.00049	-.00772	-.20866	.06910	-2.99074
.999	-.072	.00584	-.11912	.06415	.06943	-.00140	.00029	-.00935	-.11904	.06430	-1.85127
.999	.295	.00727	-.09869	.06405	.06728	-.00126	.00004	-.01067	-.09902	.06349	-1.55955
.999	2.530	.00730	.00546	.06187	.06691	-.00127	-.00023	-.00995	.00272	.06205	.04388
.999	4.451	.00761	.09355	.05871	.06699	-.00134	-.00049	-.00963	.09287	.06380	1.39302
.998	6.498	.00728	.19799	.04728	.06440	-.00190	-.00070	-.00956	.19137	.06938	2.75808
.998	8.436	.00676	.29357	.03729	.06164	-.00243	-.00103	-.00687	.28492	.07996	3.56340
.999	10.394	.00517	.41239	.04192	.05735	-.00133	-.00091	-.00764	.39765	.11702	3.39813
.999	12.625	.00529	.52606	.04568	.04763	-.00186	-.00095	-.00503	.50335	.15959	3.15403
.998	14.847	.00552	.63336	.04631	.04043	-.00241	-.00095	-.00547	.61968	.21218	2.92053
.998	16.664	.00567	.74345	.05330	.03313	-.00243	-.00114	-.00521	.69733	.26437	2.63774
.998	18.919	.00696	.87935	.05300	.02637	-.00142	-.00145	-.00637	.81466	.33525	2.43000
.998	21.117	.00856	1.01056	.05095	.02405	-.00077	-.00190	-.00767	.92434	.41161	2.24568
.999	21.975	.00862	1.05970	.04977	.02322	-.00118	-.00190	-.00779	.96409	.44269	2.17777

RUN NO. 65/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.142	.00431	-.21505	.06794	.07698	-.00224	.00107	-.00762	-.21236	.07593	-2.79665
.801	.043	.00684	-.10345	.07014	.07158	-.00267	.00077	-.00896	-.10351	.07007	-1.47725
.799	2.020	.00891	.00174	.06902	.06738	-.00265	.00026	-.00948	-.00069	.06904	-.01005
.799	4.352	.00810	.12679	.06538	.06124	-.00205	.00000	-.00802	.12146	.07491	1.62160
.799	6.555	.00811	.24879	.06517	.05169	-.00355	.00013	-.00835	.23972	.09315	2.57349
.799	8.588	.00903	.35122	.06739	.04589	-.00398	-.00029	-.00707	.33722	.11908	2.83196
.799	10.797	.00838	.44815	.07299	.04482	-.00157	-.00020	-.00772	.42654	.15565	2.74035
.799	12.866	.00791	.54158	.07824	.04561	-.00220	-.00118	-.00438	.51057	.19687	2.59344
.798	15.273	.01005	.66449	.08200	.04549	-.00301	-.00153	-.00557	.61943	.25414	2.43732
.800	17.397	.01356	.79210	.08710	.03519	-.00088	-.00159	-.00909	.72942	.31995	2.28105
.798	19.343	.01608	.89024	.08868	.02594	-.00033	-.00197	-.01072	.81035	.37911	2.13752
.798	21.425	.01498	.98454	.08979	.02943	-.00094	-.00330	-.01002	.88370	.44322	1.99381
.799	22.400	.01940	1.00949	.09143	.04071	-.00263	-.00425	-.00770	.89932	.46958	1.91504

LA-48 8-FT TPT 60D RI-0898/139 ORB SPLIT ELEVON (RHI0S9)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-10.000	BDFLAP =	.000
SPDBRK =	25.000	AILRON =	.000
ELEVTR =	-10.000		

RUN NO. 55/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.850	-2.108	.00579	-.20108	.07239	.07486	-.00307	.00011	-.00560	-.19827	.07994	-2.48025
.850	-.002	.00603	-.08872	.07452	.06753	-.00470	.00027	-.00810	-.08672	.07453	-1.16360
.850	.495	.00925	-.06013	.07515	.06587	-.00498	-.00005	-.00825	-.06078	.07463	-.81441
.850	2.153	.01132	.03491	.07435	.05896	-.00495	-.00079	-.00792	.03209	.07561	.42443
.850	4.320	.01120	.16179	.07442	.04651	-.00479	-.00068	-.00821	.15572	.08640	1.80237
.850	6.470	.00996	.27166	.07758	.03948	-.00303	-.00041	-.00787	.26119	.10770	2.42506
.850	8.606	.00969	.37527	.08149	.03539	-.00265	-.00061	-.00708	.35885	.13672	2.62465
.849	10.917	.01053	.46115	.08722	.03289	-.00265	-.00137	-.00564	.43659	.17222	2.53503
.849	12.946	.01313	.55650	.09195	.03631	-.00274	-.00247	-.00483	.52370	.21474	2.43873
.849	15.026	.01491	.66591	.09498	.03167	-.00267	-.00196	-.00814	.61852	.26438	2.33952
.850	17.260	.01636	.78775	.09849	.02164	-.00340	-.00160	-.01076	.72305	.32778	2.20590
.850	19.414	.02047	.89993	.10083	.01792	-.00260	-.00289	-.01140	.81148	.39289	2.06542
.849	22.221	.02396	1.00447	.10293	.03127	-.00485	-.00502	-.00847	.89094	.47516	1.87502
.850	22.452	.02403	1.00772	.10368	.03391	-.00544	.00560	-.00678	.89174	.48065	1.85511

RUN NO. 45/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.901	-2.168	.00479	-.18373	.08471	.07164	-.00428	.00085	-.00672	-.18039	.09160	-1.96929
.901	.007	.00728	-.05684	.08728	.05726	-.00424	.00099	-.00799	-.05665	.08724	-.64913
.900	2.218	.00947	.07578	.08727	.04211	-.00416	.00042	-.00937	.07232	.09014	.80233
.900	4.377	.01174	.19415	.08865	.03200	-.00171	.00074	-.01226	.18682	.10321	1.81003
.900	6.545	.01068	.29956	.09178	.02853	.00017	.00071	-.01131	.28715	.12533	2.29116
.900	8.683	.01162	.38964	.09783	.02768	-.00328	-.00027	-.00939	.36947	.15525	2.37979
.900	10.829	.01288	.90255	.09938	.02027	-.00331	-.00045	-.00968	.47494	.19202	2.47342
.900	12.971	.01612	.61197	.10308	.00941	-.00174	-.00243	-.00684	.57322	.23779	2.41062
.899	15.171	.01981	.73174	.10590	-.00039	-.00246	-.00036	-.01292	.67863	.29332	2.31362
.899	17.307	.01827	.84131	.10758	-.00880	-.00297	-.00124	-.01265	.77122	.35300	2.18477
.900	19.474	.02185	.93340	.11008	-.01167	-.00255	-.00194	-.01379	.85933	.42063	2.04293
.899	21.618	.02552	1.02309	.11395	-.00029	-.00323	-.00392	-.01189	.90915	.49282	1.84300
.899	22.563	.02602	1.04341	.11427	.00884	-.00479	-.00405	-.01191	.91970	.50547	1.81904

LA-40 6-FT TPT 80G R1-0998/139 ORB SPLIT ELEVON (RH1009)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-10.000	BDFLAP =	.000
SPOSRK =	25.000	AILRON =	.000
ELEVTR =	-10.000		

RUN NO. 35/ 0

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	CL	CD	L/D
.920	-2.181	.00482	-.17811	.09184	.07263	-.00455	.00125	-.00777	-.17452	.09849	-1.77194
.920	.042	.00777	-.04185	.09499	.05209	-.00433	.00113	-.00988	-.04172	.09436	-.44115
.921	2.226	.00999	.09524	.09463	.03268	-.00387	.00104	-.01113	.09149	.09826	.93102
.919	4.390	.01087	.20153	.09534	.02438	-.00047	.00181	-.01449	.19366	.11045	1.75339
.920	6.534	.01129	.30648	.09787	.02639	-.00024	.00091	-.01221	.29335	.13211	2.22052
.919	8.673	.01222	.40770	.10199	.01977	-.00339	.00046	-.01173	.38766	.16231	2.38841
.919	10.474	.01218	.52940	.10418	.00547	-.00374	.00044	-.01169	.50024	.20218	2.47429
.920	13.015	.01442	.64189	.10634	-.00531	-.00212	-.00296	-.00721	.60126	.24812	2.42329
.919	15.206	.01632	.76931	.10940	-.01870	-.00219	-.00025	-.01339	.71369	.30735	2.32209
.919	17.352	.01978	.87957	.11108	-.02971	-.00299	-.00118	-.01379	.80641	.36435	2.19927
.919	19.526	.02312	.98214	.11385	-.03033	-.00299	-.00205	-.01435	.88760	.43556	2.03783
.919	21.662	.02613	1.04631	.11742	-.01562	-.00249	-.00294	-.01467	.92993	.49371	1.87392
.919	22.618	.02578	1.06543	.12078	-.00169	-.00659	-.00529	-.00747	.93742	.52137	1.79800

RUN NO. 25/ 0

MACH	ALPHA	BETA	CN	CA	CLN	CBL	CYN	CY	CL	CD	L/D
.951	-2.143	.00353	-.19099	.10599	.09204	-.00259	.00196	-.00845	-.18690	.11305	-1.65323
.951	.041	.00671	-.05514	.10901	.08948	-.00266	.00195	-.01142	-.05522	.10997	-.50673
.951	2.230	.00949	.08298	.10959	.04774	-.00316	.00198	-.01364	.07866	.11274	.69771
.951	4.429	.00907	.21863	.10923	.02799	-.00258	.00236	-.01444	.20954	.12578	1.66596
.950	6.614	.01070	.33666	.10924	.01719	-.00168	.00150	-.01323	.32184	.14729	2.18508
.949	8.758	.00832	.45312	.10994	.00165	-.00264	.00155	-.01230	.43110	.17765	2.42662
.951	10.950	.00903	.58310	.11125	-.01730	-.00278	.00168	-.01249	.55135	.21994	2.50636
.950	13.119	.01247	.70218	.11221	-.02701	-.00256	-.00005	-.01519	.65937	.26964	2.45075
.949	15.290	.01640	.83114	.11524	-.04942	-.00223	-.00049	-.01256	.77133	.33034	2.33495
.951	17.457	.02042	.99053	.11836	-.06782	-.00291	-.00277	-.00935	.87125	.39806	2.18875
.950	19.729	.02412	1.09087	.12126	-.06378	-.00216	-.00313	-.01135	.94926	.46898	2.02248
.949	21.429	.04444	1.13652	.12709	-.04540	-.00065	-.00665	-.02232	1.00779	.54057	1.86428
.949	22.714	.04696	1.14533	.12919	-.02323	-.00394	-.00851	-.01570	1.00661	.56142	1.79296

LA-40 9-FT TPT 000 81-0698/130 ORB SPLIT ELEVON (RH1003)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-10.000	BDFLAP =	.000
SPDBRK =	25.000	AILRON =	.000
ELEVTR =	-10.000		

RUN NO. 15/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.978	-2.221	.00422	-.19458	.12378	.09731	-.00290	.00199	-.00410	-.19364	.13140	-1.47368
.980	.240	.00878	-.04846	.12613	.07316	-.00345	.00165	-.01187	-.04900	.12793	-.38299
.980	3.293	.01037	.14701	.12801	.04096	-.00354	.00145	-.01254	.13941	.13824	1.02329
.979	4.808	.01055	.22779	.12839	.02895	-.00307	.00174	-.01357	.21674	.14626	1.48197
.978	6.601	.00971	.34101	.12966	.01288	-.00267	.00160	-.01250	.32441	.16827	1.92789
.980	8.890	.00953	.47572	.13295	-.00851	-.00301	.00129	-.01146	.44950	.20479	2.19497
.983	11.014	.00949	.60385	.13887	-.02580	-.00309	.00121	-.01120	.56620	.25168	2.24966
.978	12.782	.01712	.71176	.13639	-.04521	-.00261	-.00091	-.01112	.66394	.29048	2.28561
.978	15.490	.02171	.87042	.14063	-.06333	-.00304	-.00194	-.01192	.80189	.36753	2.18184
.980	17.998	.01225	.99870	.14599	-.07489	-.00387	.00039	-.01129	.90559	.44569	2.03187

RUN NO. 5/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.079	-2.216	.00663	-.17890	.14768	.08730	-.00289	.00152	-.00942	-.17268	.15447	-1.11773
1.080	.087	.00964	-.04443	.14946	.06994	-.00328	.00183	-.01253	-.04469	.14840	-.30049
1.082	2.293	.01225	.09422	.14914	.04180	-.00317	.00177	-.01426	.08818	.15279	.57713
1.081	4.401	.01161	.22191	.15229	.01975	-.00307	.00184	-.01402	.20917	.16983	1.23193
1.080	6.621	.01180	.34631	.15414	-.00062	-.00263	.00174	-.01376	.32623	.19304	1.68994
1.080	9.091	.01173	.48299	.15388	-.02071	-.00267	.00196	-.01125	.45221	.22819	1.98172
1.080	10.979	.01264	.59054	.15313	-.03513	-.00247	.00115	-.00946	.55057	.26240	2.09501
1.081	13.237	.01135	.71997	.15291	-.05188	-.00321	.00011	-.00883	.66583	.31370	2.12247
1.080	15.446	.01298	.83990	.15322	-.06442	-.00330	-.00025	-.00909	.76837	.37127	2.06955
1.079	17.681	.01408	.99937	.15787	-.07990	-.00326	-.00033	-.00984	.86815	.44180	1.96542

LA-48 8-FT TPT 690 RI-0498/139 CRB SPLIT ELEVON (RHI006)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-20.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-20.000	BDFLAP =	.000
PDBRK =	25.000	AILRON =	.000
ELEVTR =	-20.000		

RUN NO. 76/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.999	-2.189	.00451	-.32783	.07649	.12476	-.00145	.00115	-.01002	-.32467	.08895	-3.64990
.000	-.026	.0[illegible]841	-.22068	.07923	.11964	-.00075	.00084	-.01142	-.22064	.07933	-2.78140
.999	2.211	.00750	-.11075	.07779	.11515	-.00070	.00021	-.01153	-.11367	.07346	-1.54739
.999	4.107	.00760	-.01345	.07514	.11256	-.00081	.00007	-.01131	-.01465	.07139	-.25913
.999	6.041	.00758	.07933	.06541	.11111	-.00111	-.00012	-.01042	.07200	.07340	.98099
.998	8.359	.00660	.19764	.05413	.10965	-.00147	-.00026	-.00882	.19767	.08228	2.28073
.998	10.644	.00603	.33616	.05119	.[illegible]9962	-.00183	-.00039	-.00779	.32092	.11240	2.85518
.998	12.598	.00528	.43268	.05616	.09472	-.00235	-.00039	-.00672	.41004	.14910	2.75002
.998	14.826	.00633	.55348	.05623	.09253	-.00170	-.00040	-.00835	.52066	.19599	2.65654
.998	16.918	.00595	.64644	.06306	.08868	-.00258	-.00072	-.00691	.60581	.24944	2.41554
.998	19.691	.00637	.73689	.06408	.08891	-.00231	-.00091	-.00735	.67749	.29685	2.28230
.998	20.997	.00706	.86167	.06299	.08205	-.00233	-.00131	-.00703	.79188	.36756	2.12721
.998	22.015	.00805	.92269	.06212	.09337	-.00175	-.00132	-.00769	.83219	.40332	2.06338

RUN NO. 66/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.255	.00354	-.33634	.08397	.14106	-.00202	.00180	-.00827	-.33278	.09714	-3.42590
.799	-.167	.00595	-.22739	.08632	.13357	-.00219	.00118	-.[illegible]0935	-.22714	.08698	-2.61140
.800	.049	.00673	-.21149	.08528	.12997	-.00181	.00139	-.01074	-.21196	.08510	-2.49065
.800	2.136	.00849	-.09944	.08355	.12189	-.00183	.00085	-.01084	-.09999	.07992	-1.23736
.799	4.146	.00834	.01906	.07988	.11384	-.00226	.00065	-.01032	.00024	.08076	.11446
.799	6.452	.00852	.10251	.07777	.[illegible]0966	-.00277	.[illegible]0040	-.00858	.15274	.09554	1.59871
.799	8.694	.00795	.29814	.07845	.07398	-.00329	.00006	-.00808	.29286	.12262	2.38683
.799	10.678	.00756	.40680	.08112	.06996	-.00311	.[illegible]0015	-.00765	.39473	.15509	2.44069
.798	12.872	.00902	.51935	.08365	.06429	-.00316	-.00101	-.00672	.49767	.19725	2.47234
.798	15.127	.00968	.63491	.08673	.06227	-.00377	-.00152	-.00523	.59028	.24941	2.36673
.800	17.[illegible]09	.01259	.74048	.09074	.06172	-.00165	-.00166	-.00783	.68967	.30709	2.24586
.799	19.152	.01561	.84003	.09437	.05052	-.00149	-.00178	-.01043	.76258	.36474	2.09077
.798	21.389	.01990	.91910	.09793	.06563	-.00227	-.00315	-.01038	.81915	.42600	1.92287
.799	22.673	.02157	.94512	.10122	.08419	-.00232	-.00423	-.01010	.83506	.45771	1.82506

LA-48 8-FT TPT 680 R1-0898/139 ORB SPLIT ELEVON (RHI006)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-20.000
ELV-L1 =	-20.000	ELV-R1 =	-20.000
ELV-RO =	-20.000	BDFLAP =	.000
SPDBRK =	25.000	AILRON =	.000
ELEVTR =	-20.000		

RUN NO. 38/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.849	-2.238	.00587	-.32956	.08722	.14461	-.00481	.00036	-.00640	-.32590	.10003	-3.25815
.850	-.150	.00809	-.21216	.08915	.13557	-.00460	.00013	-.00772	-.21193	.08970	-2.36252
.849	.316	.00884	-.18123	.08765	.12914	-.00415	.00006	-.00821	-.18171	.08665	-2.09708
.849	2.300	.01068	-.06342	.08661	.11729	-.00443	-.00037	-.00861	-.06685	.08400	-.79583
.849	4.323	.01192	.06436	.08557	.10153	-.00442	-.00047	-.00945	.05772	.09018	.64014
.849	7.477	.01066	.25884	.08782	.07491	-.00415	-.00032	-.00881	.24521	.12075	2.03072
.850	9.837	.01022	.33678	.09005	.06598	-.00386	-.00047	-.00900	.31895	.14072	2.26653
.850	10.930	.00971	.45269	.09396	.05425	-.00299	-.00069	-.00692	.42666	.17809	2.39584
.850	12.745	.01109	.54733	.09577	.04532	-.00263	-.00107	-.00712	.51271	.21416	2.39406
.849	15.261	.01251	.66287	.09958	.04427	-.00134	-.00084	-.00928	.61329	.27055	2.26685
.850	18.198	.01250	.78860	.10298	.04308	-.00224	-.00072	-.00964	.65174	.29657	2.19761
.849	19.117	.01832	.83177	.10765	.04927	-.00054	-.00207	-.01140	.75065	.37411	2.00647
.848	21.501	.02239	.91122	.11280	.06781	-.00210	-.00351	-.01129	.80647	.43993	1.83735
.849	22.407	.02298	.92690	.11567	.08195	-.00210	-.00453	-.00898	.81283	.46026	1.76601

RUN NO. 46/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.243	.00702	-.32998	.09857	.15771	-.00480	.00074	-.00821	-.32587	.11141	-2.92496
.900	-.054	.00938	-.19694	.09961	.14080	-.00439	.00042	-.00928	-.19695	.09980	-1.97244
.900	2.140	.01080	-.05802	.09824	.12054	-.00424	-.00003	-.00913	-.06165	.09601	-.64214
.900	4.312	.01201	.08177	.09822	.09872	-.00399	.00003	-.01038	.07416	.10409	.71244
.900	6.500	.01193	.22398	.10049	.07851	-.00371	-.00016	-.00976	.21116	.12525	1.68654
.900	8.658	.01131	.35467	.10434	.05711	-.00334	-.00002	-.00970	.33492	.15655	2.13944
.899	10.819	.01041	.47543	.10 6	.04103	-.00195	.00008	-.00929	.44681	.19479	2.29378
.899	12.997	.01248	.56643	.11140	.04457	-.00157	-.00126	-.00715	.52687	.23594	2.23308
.900	15.130	.01485	.66251	.11714	.04573	-.00109	-.00020	-.01254	.60897	.28600	2.12922
.899	17.286	.01955	.76815	.119 3	.04074	-.00150	-.00090	-.01390	.69783	.34271	2.03622
.901	19.489	.02133	.87834	.12248	.03916	-.00140	-.00183	-.01381	.78730	.40822	1.92854
.899	21.566	.02444	.94910	.12998	.05147	-.00255	-.00370	-.01134	.83635	.46603	1.79463
.900	22.533	.02603	.96844	.12667	.06053	-.00389	-.00401	-.01201	.84597	.48812	1.73313

LA-48 8-FT TPT 080 RI-0894/139 CRB SPLIT ELEVON (RH1006)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-20.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-20.000	BDFLAP =	.000
SPDBRK =	25.000	AILRON =	.000
ELEVTR =	-20.000		

RUN NO. 36/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.920	-2.241	.00635	-.34021	.10703	.17203	-.00485	.00043	-.00797	-.33576	.12025	-2.79213
.920	-.039	.00958	-.20454	.10738	.15165	-.00461	.00046	-.00938	-.20443	.10759	-1.90001
.920	2.145	.01057	-.05591	.10584	.12704	-.00433	.00013	-.00923	-.05993	.10367	-.57712
.921	4.341	.01145	.09232	.10622	.10231	-.00386	.00024	-.01029	.08401	.11291	.74408
.920	6.511	.01237	.22678	.10756	.08203	-.00322	.00019	-.01097	.21312	.13258	1.60748
.920	8.705	.01052	.35741	.11087	.06180	-.00240	.00062	-.01075	.33651	.16369	2.05585
.919	10.850	.01121	.48505	.11352	.03879	-.00217	.00025	-.01030	.45501	.20279	2.24371
.920	12.999	.01440	.59409	.11770	.03958	-.00164	-.00159	-.00758	.54265	.24607	2.20528
.920	15.197	.01586	.69740	.12221	.03203	-.00157	-.00025	-.01297	.64038	.30075	2.13123
.920	17.332	.01922	.80661	.12450	.02034	-.00224	-.00107	-.01369	.73290	.35915	2.04067
.919	19.489	.02315	.90485	.12564	.02168	-.00211	-.00180	-.01513	.81109	.42032	1.92968
.920	21.642	.02596	.98108	.12896	.03264	-.00231	-.00305	-.01417	.86436	.49170	1.79441
.919	22.590	.02615	.99944	.13136	.04496	-.00459	-.0044[illegible]	-.01021	.87229	.50521	1.72659

RUN NO. 26/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.951	-2.227	.00652	-.33996	.12060	.18424	-.00421	.00094	-.00909	-.33502	.13372	-2.50533
.952	-.034	.00962	-.19718	.12171	.16060	-.00397	.00072	-.00994	-.19711	.12183	-1.61795
.952	2.161	.01182	-.05023	.12003	.13360	-.00403	.00044	-.01089	-.05472	.11805	-.46351
.951	4.363	.01088	.10354	.11918	.10401	-.00364	.00090	-.01154	.09417	.12672	.74316
.950	6.550	.01049	.24275	.12022	.08009	-.00251	.00136	-.01284	.22748	.14712	1.54605
.950	8.737	.00981	.36328	.12228	.05476	-.00294	.00104	-.01117	.34726	.17908	2.01171
.951	10.933	.00841	.51469	.12456	.03133	-.00308	.00143	-.01122	.49173	.21992	2.19051
.950	13.094	.01132	.63410	.12607	.02317	-.00269	.00018	-.00994	.59905	.26645	2.21072
.950	15.267	.01742	.75073	.12789	.00614	-.00251	-.00099	-.01164	.69056	.32106	2.15090
.950	17.417	.02081	.86592	.13025	-.01088	-.00234	-.00230	-.01075	.78723	.38347	2.05292
.949	19.596	.02455	.97956	.13293	-.01460	-.00123	-.00237	-.01401	.87824	.45376	1.93546
.9[illegible]	21.785	.04804	1.07195	.13425	.00571	-.00039	-.00636	-.02279	.94409	.52619	1.79418
.950	22.697	.04933	1.09949	.13908	.01493	-.00311	-.00600	-.02527	.96104	.55272	1.73876

LA-48 8-FT TPT 80O RI-0898/139 ORB SPLIT ELEVON (RH1006)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-20.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-20.000	BDFLAP =	.000
SPDBRK =	25.000	AILRON =	.000
ELEVTR =	-20.000		

RUN NO. 18/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.978	-2.127	.00730	-.33226	.14259	.18631	-.00334	.00103	-.00886	-.32674	.15483	-2.11034
.980	-.048	.01039	-.19487	.14379	.16190	-.00322	.00083	-.01065	-.19475	.14395	-1.35288
.981	2.112	.01164	-.04622	.14205	.13338	-.00337	.00103	-.01226	-.05142	.14025	-.36664
.980	4.357	.01191	.10588	.14335	.10423	-.00283	.00135	-.01346	.09469	.15098	.62712
.979	6.501	.01075	.23857	.14451	.08220	-.00246	.00135	-.01259	.22067	.17039	1.29536
.979	8.769	.01083	.38601	.14813	.05314	-.00318	.00119	-.01220	.35891	.20525	1.74867
.979	10.959	.01106	.52831	.15204	.02473	-.00324	.00113	-.01225	.48977	.24970	1.96142
.979	13.189	.01903	.66067	.15058	.00629	-.00311	-.00160	-.01058	.60999	.29714	2.04951
.982	15.300	.02168	.78772	.15497	-.00927	-.00324	-.00205	-.01150	.71894	.35724	2.01251
.980	17.551	.01418	.90522	.15628	-.01902	-.00387	-.00014	-.01128	.81595	.42198	1.93361

RUN NO. 6/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.080	-2.280	.00960	-.30800	.17068	.16943	-.00240	.00122	-.01070	-.29897	.18272	-1.63624
1.080	-.028	.01206	-.16162	.17127	.14255	-.00304	.00151	-.01336	-.16154	.17134	-.94276
1.080	2.165	.01377	-.02043	.17025	.11454	-.00296	.00127	-.01389	-.02685	.16936	-.15852
1.080	4.290	.01480	.11480	.17381	.08795	-.00305	.00141	-.01507	.10128	.18190	.55678
1.081	6.510	.01322	.24885	.17591	.06442	-.00265	.00144	-.01405	.22730	.20299	1.11976
1.080	8.851	.01169	.39742	.17731	.03424	-.00290	.00124	-.01238	.36540	.23635	1.54601
1.079	11.001	.01231	.52891	.17453	.00842	-.00362	.00093	-.01197	.48589	.27225	1.78472
1.079	13.202	.01165	.65494	.16966	-.00666	-.00399	.00010	-.00905	.59889	.31475	1.90271
1.080	15.415	.01214	.76947	.16528	-.01631	-.00408	-.00004	-.00905	.69785	.36387	1.91788
1.078	17.777	.01480	.89689	.16748	-.03002	-.00306	-.00024	-.01065	.80293	.43331	1.85302

LA-48 9-FT TPT 68Q RI-0698/139 CRB SPLIT ELEVON (RHI007)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	5.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-5.000	BDFLAP =	.000
SPOBRK =	25.000		

RUN NO. 77/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.599	-2.013	.00691	-.06204	.06442	-.00640	.00638	.00114	-.01349	-.05974	.06656	-.89760
.599	.056	.00800	.03613	.06619	-.00697	.00677	.00139	-.01579	.03607	.06622	.54468
.600	.284	.00843	.04557	.06623	-.00756	.00692	.00107	-.01545	.04524	.06646	.69081
.599	2.345	.01002	.14567	.06404	-.00926	.00764	.00075	-.01683	.14293	.06995	2.04334
.598	4.373	.01054	.24532	.05839	-.01147	.00814	.00056	-.01708	.24015	.07693	3.12166
.599	6.398	.01051	.35071	.04943	-.01413	.00812	.00042	-.01665	.34302	.08820	3.88891
.599	8.439	.00953	.46264	.03895	-.01554	.00715	.00015	-.01449	.45188	.10658	4.23975
.599	10.542	.00775	.58082	.04546	-.03112	.01191	.00207	-.01771	.56270	.15096	3.72758
.598	12.626	.00851	.69193	.05008	-.03824	.00963	.00037	-.01381	.66425	.20011	3.31938
.599	14.842	.00825	.83039	.05459	-.04931	.00695	-.00046	-.01104	.78870	.26549	2.97080
.598	17.112	.01003	.95329	.06240	-.06211	.00730	-.00101	-.01223	.89272	.34014	2.62458
.598	19.956	.01113	1.06069	.06152	-.06664	.00831	-.00152	-.01258	.99319	.40273	2.44129
.598	21.247	.01171	1.18077	.05900	-.06353	.00763	-.00186	-.01274	1.07913	.48249	2.23472
.597	22.117	.01094	1.23287	.05824	-.06055	.00626	-.00194	-.01141	1.12022	.51813	2.16204

RUN NO. 67/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.036	.00637	-.06712	.06822	-.00269	.00468	.00195	-.01207	-.06463	.07058	-.91563
.801	.031	.00965	.03541	.07010	-.00491	.00495	.00156	-.01406	.03534	.07014	.50393
.799	2.541	.01145	.16556	.06826	-.01050	.00576	.00114	-.01460	.16237	.07554	2.14958
.798	4.380	.01246	.27426	.06533	-.01660	.00672	.00127	-.01601	.26047	.08609	3.11849
.799	6.653	.01148	.39434	.06780	-.02217	.00723	.00122	-.01495	.37399	.11197	3.34209
.799	8.690	.01025	.48372	.07043	-.02800	.00656	.00067	-.01214	.46753	.14271	3.27617
.799	10.772	.01162	.57890	.07630	-.03347	.00911	.00039	-.01271	.55434	.19314	3.02690
.798	12.881	.01207	.69171	.08078	-.04361	.00856	-.00074	-.00996	.65630	.23295	2.81727
.798	15.141	.01337	.83555	.08473	-.05485	.00671	-.00087	-.01091	.79441	.30002	2.61451
.797	17.358	.01949	.97122	.09009	-.07360	.00962	-.00155	-.01528	.90012	.37573	2.39564

LA-48 8-FT TPT 60D R1-0898/139 CRB SPLIT ELEVON (RH1007)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	5.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-5.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 57/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.850	-2.079	.00570	-.05720	.07209	-.04550	.00040	.00110	-.00648	-.05455	.07412	-.73600
.850	.146	.00942	.05960	.07404	-.01387	.00080	.00097	-.01147	.05941	.07420	.80076
.850	2.268	.01169	.17899	.07379	-.02220	.00132	.00039	-.01180	.17593	.08081	2.17705
.850	4.431	.01263	.28659	.07539	-.02525	.00333	.00071	-.01364	.27991	.09730	2.87666
.850	6.310	.01117	.37306	.07877	-.03093	.00249	.00039	-.01137	.36214	.11929	3.03580
.849	8.684	.01049	.49621	.08204	-.04087	.00107	-.00031	-.00870	.47813	.15602	3.06448
.848	12.949	.01736	.71370	.09225	-.06263	.00763	-.00231	-.00927	.67488	.24983	2.70139
.850	14.194	.01550	.78948	.09423	-.06741	.00590	-.00192	-.00876	.74227	.28493	2.60507
.849	15.285	.01683	.86304	.09638	-.07779	.00570	-.00093	-.01307	.80710	.32048	2.51839
.849	22.778	.01275	1.12645	.11070	-.04108	-.01007	-.01048	.01890	.99575	.53818	1.85022

RUN NO. 47/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.072	.00404	-.04897	.08349	-.01547	-.00190	.00191	-.00819	-.04591	.08521	-.53885
.901	.089	.00851	.07053	.08601	-.02464	-.00182	.00173	-.01245	.07039	.08612	.81734
.900	2.234	.01101	.18098	.08590	-.02941	-.00009	.00144	-.01373	.17749	.09249	1.91986
.900	4.405	.01197	.26988	.08840	-.02161	.00377	.00148	-.01469	.26229	.10847	2.40922
.900	6.555	.01207	.38550	.09134	-.03403	.00335	.00090	-.01307	.37256	.13475	2.76479
.900	8.705	.01284	.49544	.09510	-.04766	.00373	.00025	-.01184	.47534	.16898	2.81293
.899	10.881	.01336	.62745	.09733	-.06521	.00431	.00009	-.01190	.59780	.21402	2.79322
.899	13.038	.01806	.74402	.10221	-.07975	.00651	-.00210	-.00954	.70178	.26742	2.62430
.900	15.214	.01740	.87978	.10724	-.09650	.00513	-.00050	-.01389	.82041	.33436	2.45447
.900	17.382	.01912	.99199	.10998	-.10621	.00404	-.00153	-.01251	.91343	.40132	2.27709

RUN NO. 37/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.921	-2.106	.00413	-.05425	.09326	-.01300	-.00430	.00178	-.00878	-.05078	.09519	-.53349
.921	.084	.00693	.06213	.09515	-.02093	-.00401	.00164	-.01089	.06200	.09524	.65095
.920	2.249	.00977	.17577	.09416	-.02475	-.00203	.00154	-.01279	.17194	.10101	1.70223
.920	4.404	.01175	.27056	.09575	-.02248	.00203	.00162	-.01468	.26241	.11622	2.25786
.920	6.582	.01335	.38923	.09790	-.03874	.00321	.00070	-.01334	.38538	.14302	2.69489
.921	8.724	.01328	.50994	.10099	-.05320	.00257	.00032	-.01219	.48979	.17677	2.76514
.919	10.908	.01439	.64302	.10300	-.07514	.00319	-.00026	-.01147	.61191	.22242	2.74628
.920	13.079	.02018	.76398	.10715	-.08917	.00535	-.00305	-.00915	.71992	.27725	2.59669
.919	15.254	.01969	.90302	.11185	-.11013	.00422	-.00101	-.01316	.84178	.34548	2.43653
.919	22.639	.02208	1.17821	.12785	-.09298	-.00441	-.00756	.00269	1.03802	.57187	1.81511

LA-48 8-FT TPT 68Q RI-0898/139 ORB SPLIT ELEVON (RHI007)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	5.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-5.000	BDFLAP =	.000
SPOSRK =	25.000		

RUN NO. 27/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.951	-2.106	.00901	-.06791	.10886	-.00230	-.00050	.00126	-.00784	-.06386	.11128	-.57387
.951	.065	.00867	.05683	.11102	-.01611	-.00012	.00117	-.01052	.05670	.11108	.51043
.951	2.262	.01071	.18742	.11030	-.03264	.00037	.00115	-.01213	.18292	.11761	1.55530
.951	4.452	.01004	.31937	.10890	-.04790	.00226	.00174	-.01337	.30996	.13337	2.32408
.950	6.629	.01205	.42991	.10857	-.05621	.00263	.00063	-.01171	.41450	.15749	2.63214
.950	8.794	.01280	.55367	.10990	-.07297	.00263	.00002	-.01054	.53036	.19326	2.74436
.950	10.969	.01182	.67704	.11214	-.08920	.00240	-.00017	-.00923	.64334	.23891	2.69275
.950	13.154	.01411	.80795	.11480	-.10621	.00300	-.00106	-.00855	.76062	.29556	2.57265
.950	15.354	.01575	.94943	.12000	-.13612	.00295	-.00067	-.01122	.88377	.36711	2.40739
.951	17.505	.02145	1.07267	.12608	-.15681	.00312	-.00325	-.00840	.98508	.44289	2.22423
.949	19.673	.02595	1.16325	.12908	-.14900	.00354	-.00427	-.00954	1.05325	.50937	2.06774
.949	21.858	.05005	1.24900	.13157	-.12406	.00706	-.00753	-.02109	1.11023	.59711	1.89100

RUN NO. 17/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.978	-2.094	.00629	-.07306	.12764	.00909	.00049	.00105	-.00810	-.06834	.13022	-.52481
.980	.157	.00941	.05703	.13071	-.01083	.00021	.00069	-.00947	.05667	.13087	.43303
.980	2.273	.01184	.18535	.13032	-.02829	.00039	.00067	-.01135	.18004	.13757	1.30869
.979	4.446	.01105	.32063	.12847	-.04819	.00184	.00084	-.01126	.30970	.15294	2.02502
.979	6.702	.01110	.44534	.12946	-.06234	.00226	.00164	-.01373	.42719	.18055	2.36609
.980	8.861	.01141	.57097	.13252	-.08126	.00230	.00065	-.01104	.54375	.21889	2.48407
.980	11.077	.01259	.70077	.13791	-.09985	.00262	.00020	-.01070	.66121	.26998	2.44912
.980	13.215	.02033	.83619	.14252	-.12302	.00370	-.00152	-.01336	.79147	.32991	2.39870
.980	15.337	.02580	.97012	.14645	-.14237	.00414	-.00293	-.01226	.89684	.39783	2.25433
.979	17.637	.01795	1.09729	.15044	-.15490	.00341	-.00169	-.00971	1.00012	.47583	2.10183
.979	19.760	.01597	1.21867	.15225	-.16732	.00252	-.00141	-.00915	1.09543	.55330	1.97289

RUN NO. 7/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.079	-2.078	.00929	-.06589	.14586	.00634	.00149	.00064	-.00872	-.06056	.14815	-.40876
1.080	.108	.01285	.05831	.14626	-.00973	.00148	.00050	-.01089	.05804	.14637	.39650
1.080	2.266	.01441	.20917	.14787	-.03354	.00180	.00034	-.01158	.20234	.15709	1.28807
1.079	4.769	.01410	.33755	.15009	-.05493	.00298	.00107	-.01358	.32391	.17764	1.82340
1.080	6.949	.01299	.43310	.15083	-.06760	.00297	.00204	-.01560	.41293	.19953	2.06952
1.079	9.744	.01308	.55324	.15399	-.08499	.00248	.00077	-.01198	.52348	.23590	2.21902
1.080	11.029	.01375	.64359	.15491	-.10229	.00312	.00054	-.01187	.64133	.28281	2.26769
1.080	13.241	.01351	.81397	.15569	-.12143	.00312	.00029	-.01099	.75667	.33900	2.23170
1.078	15.718	.01578	.95089	.15736	-.13439	.00417	.00016	-.01244	.87271	.40984	2.13356
1.074	18.090	.01506	1.08453	.16201	-.15059	.00340	.00011	-.01272	.99061	.49076	1.99816

LA-48 8-FT TPT 680 RI-0998/139 ORB SPLIT ELEVON (RH1008)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	5.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-5.000	BDFLAP =	.000
SPOBRK =	25.000		

RUN NO. 78/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.997	-1.980	.00703	-.22375	.07116	.07690	.00773	.00122	-.01394	-.22118	.07877	-2.80788
.600	.001	.00826	-.13233	.07324	.07434	.00763	.00101	-.01501	-.13234	.07324	-1.80697
.600	2.131	.00991	-.03161	.07162	.07124	.00784	.00075	-.01664	-.03426	.07039	-.48683
.599	4.413	.01119	.08181	.06551	.06984	.00915	.00063	-.01822	.07652	.07161	1.06865
.598	6.434	.01038	.18034	.05714	.07113	.00952	.00061	-.01706	.17280	.07699	2.24450
.599	8.446	.01009	.27788	.04737	.07324	.00970	.00047	-.01626	.26791	.08767	3.05590
.599	10.612	.00854	.40084	.04263	.06570	.01110	.00179	-.01401	.38595	.11670	3.30728
.599	12.490	.00768	.50703	.04715	.05710	.01028	.00116	-.01491	.48483	.15569	3.11409
.598	14.606	.00900	.63410	.04866	.04767	.00990	.00029	-.01441	.60134	.20699	2.90517
.599	16.314	.00857	.73914	.05784	.04422	.00848	-.00016	-.01248	.66434	.25471	2.60824
.598	18.845	.00960	.85739	.05885	.03197	.00952	-.00056	-.01282	.79242	.33264	2.38222
.597	21.140	.01103	.99579	.05678	.03297	.00822	-.00138	-.01315	.90829	.41208	2.20413
.598	21.954	.01100	1.04101	.05646	.03306	.00707	-.00145	-.01294	.94441	.44158	2.13880

RUN NO. 68/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.079	.00705	-.22616	.07702	.04291	.00592	.00199	-.01286	-.22321	.08518	-2.62063
.800	-.056	.00967	-.12440	.07893	.07834	.00561	.00151	-.01396	-.12432	.07906	-1.57257
.799	2.092	.01190	-.00971	.07756	.07231	.00573	.00105	-.01477	-.01254	.07716	-.16251
.799	4.144	.01218	.10085	.07404	.06604	.00593	.00092	-.01470	.09523	.08113	1.17379
.799	6.433	.01158	.23188	.07230	.05953	.00607	.00101	-.01440	.22232	.09783	2.27265
.798	8.536	.01080	.34255	.07434	.05433	.00652	.00071	-.01281	.32759	.12471	2.62698
.799	10.720	.01102	.45688	.07858	.04568	.00719	.00055	-.01260	.43429	.16219	2.67760
.799	12.894	.01250	.56504	.08212	.04249	.00913	-.00063	-.01062	.53247	.20613	2.58312
.799	15.112	.01256	.66452	.09617	.04411	.00677	-.00090	-.00998	.61908	.25644	2.41415
.798	17.717	.01781	.82166	.09209	.02429	.01013	-.00147	-.01386	.75467	.33777	2.23427
.799	19.510	.01956	.89143	.09455	.02842	.01056	-.00160	-.01542	.80867	.38683	2.09051
.798	21.424	.02157	.96643	.09536	.03811	.00874	-.00278	-.01430	.86481	.44178	1.95757
.798	22.416	.02151	.99099	.09676	.03075	.00788	-.00365	-.01178	.87920	.46734	1.88128

LA-48 8-FT TPT 040 RI-0898/139 ORB SPLIT ELEVON (RH1008)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	5.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-5.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 96/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.850	-2.113	.00654	-.22220	.08211	.04556	.00208	.00135	-.00998	-.21903	.09025	-2.42688
.850	.000	.01065	-.11066	.08390	.07840	.00157	.00091	-.01241	-.11066	.08390	-1.31892
.850	2.099	.01292	.00677	.08293	.06990	.00175	.00025	-.01248	.00372	.08312	.04480
.849	4.308	.01277	.14568	.08127	.06028	.00207	.00033	-.01264	.13984	.09248	1.50158
.849	6.417	.01231	.24755	.08422	.05401	.00255	.00037	-.01239	.23659	.11136	2.12453
.850	8.670	.01175	.36876	.08755	.04399	.00259	-.00005	-.01064	.35135	.14214	2.47187
.849	10.888	.01212	.48790	.09074	.03405	.00278	-.00075	-.00898	.46195	.18108	2.55104
.851	12.912	.01446	.58171	.09523	.02998	.00440	-.00125	-.00975	.54572	.22291	2.44927
.849	15.071	.01587	.67680	.09973	.03085	.00527	-.00134	-.01092	.62740	.27223	2.30465
.850	17.154	.01739	.77476	.10417	.02066	.00462	-.00129	-.01265	.71913	.33109	2.17261
.850	19.234	.02169	.88229	.10827	.01862	.00510	-.00240	-.01367	.79903	.39099	2.04107
.849	21.490	.02315	.97466	.10699	.02638	.00423	-.00333	-.01763	.86903	.45600	1.90358
.849	22.460	.02524	.99540	.10788	.03886	.00316	-.00498	-.01917	.87868	.47997	1.83068

RUN NO. 48/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.901	-2.182	.00707	-.21816	.09276	.04960	.00213	.00235	-.01310	-.21447	.10100	-2.12350
.901	-.007	.01059	-.09233	.09483	.07641	.00242	.00188	-.01469	-.09232	.09484	-.97340
.900	2.176	.01126	.03815	.09363	.06390	.00151	.00156	-.01431	.03457	.09501	.36383
.900	4.355	.01259	.15096	.09501	.05968	.00100	.00130	-.01468	.14331	.10620	1.34948
.901	6.524	.01229	.26949	.09798	.04984	.00121	.00086	-.01314	.25682	.12797	2.00529
.900	8.678	.01244	.39246	.10182	.03315	.00163	.00026	-.01152	.37260	.15997	2.33000
.900	10.828	.01416	.51018	.10517	.01894	.00267	-.00009	-.01203	.49134	.19914	2.41710
.900	12.996	.01638	.61336	.10808	.01729	.00468	-.00149	-.00999	.57330	.24314	2.35822
.900	15.129	.01807	.70783	.11208	.01401	.00366	-.00010	-.01392	.65405	.29294	2.23274
.900	17.306	.01944	.81703	.11496	.00595	.00298	-.00127	-.01266	.74594	.35281	2.11400
.898	19.442	.02151	.92049	.11743	.00435	.00353	-.00217	-.01302	.82892	.41712	1.98724
.898	21.594	.02611	1.00366	.11986	.01121	.00380	-.00351	-.01346	.89910	.48082	1.87012
.899	22.595	.02600	1.02935	.12000	.01730	.00265	-.00334	-.01403	.90459	.50565	1.78897

LA-48 8-FT TPT 680 RI-0998/139 ORB SPLIT ELEVON (RH1008)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	5.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-5.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 38/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.921	-2.164	.00730	-.21376	.09991	.09291	.00241	.00254	-.01374	-.20983	.10791	-1.94450
.920	.021	.01002	-.09048	.10138	.07602	.00249	.00242	-.01563	-.08052	.10135	-.79449
.920	2.199	.01178	.04536	.10137	.06302	.00084	.00191	-.01559	.04146	.10303	.40236
.920	4.361	.01229	.15694	.10213	.05914	.00088	.00152	-.01485	.14876	.11377	1.30754
.920	6.590	.01252	.24093	.10365	.04822	.00213	.00121	-.01415	.26727	.13502	1.97949
.919	8.704	.01330	.40353	.10706	.02988	.00156	.00058	-.01290	.38268	.16689	2.29295
.920	10.883	.01448	.52539	.11094	.01433	.00249	.00010	-.01259	.49300	.20814	2.37821
.919	13.029	.01770	.63778	.11282	.00712	.00403	-.00163	-.01030	.59592	.25371	2.34885
.919	15.184	.01668	.73441	.11680	.00158	.00337	-.00026	-.01368	.67823	.30489	2.22454
.919	17.341	.01890	.84410	.11915	-.00476	.00262	-.00133	-.01256	.77023	.36532	2.10835
.920	19.511	.02282	.94578	.12163	-.01116	.00260	-.00231	-.01329	.85044	.43053	1.97629
.918	21.633	.02707	1.02225	.12399	-.00296	.00329	-.00302	-.01531	.90453	.49212	1.83902
.917	22.604	.03613	1.05191	.12448	.00632	.00204	-.00369	-.01263	.92317	.51920	1.77807

RUN NO. 28/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.990	-2.159	.00778	-.21524	.11138	.10610	.00406	.00338	-.01645	-.21090	.11941	-1.76622
.991	.028	.01095	-.07786	.11393	.08363	.00342	.00319	-.01843	-.07794	.11389	-.68429
.991	2.221	.01164	.06112	.11433	.06266	.00256	.00206	-.01800	.05665	.11661	.48577
.991	4.407	.01139	.18468	.11456	.04903	.00231	.00270	-.01734	.17932	.12872	1.39317
.990	6.576	.01224	.31124	.11530	.03664	.00326	.00240	-.01719	.29598	.15018	1.97083
.990	8.753	.01160	.43799	.11755	.01811	.00287	.00183	-.01499	.41500	.18283	2.26984
.991	10.945	.01274	.57026	.11910	-.00246	.00402	.00147	-.01491	.53727	.22520	2.38571
.949	13.128	.01355	.68723	.11975	-.01275	.00326	-.00027	-.01047	.64207	.27270	2.35448
.990	15.277	.01886	.79707	.12300	-.02625	.00304	-.00120	-.01222	.73649	.32967	2.24086
.949	17.417	.01937	.89423	.12586	-.03634	.00259	-.00172	-.01130	.81355	.38778	2.10326
.990	19.603	.02609	1.01397	.13070	-.04451	.00378	-.00348	-.01194	.91135	.46331	1.96709
.991	21.789	.04463	1.10679	.13567	-.02529	.00477	-.00741	-.02014	.97735	.53679	1.82073
.990	22.709	.04971	1.13582	.13913	-.01718	.00185	-.00664	-.02373	.99580	.56315	1.76790

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RHI008)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	5.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-5.000	DDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 187 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.940	-2.224	.00819	-.21839	.13127	.10922	.00466	.00320	-.01606	-.21373	.13967	-1.53028
.982	.066	.01084	-.07616	.13598	.08623	.00396	.00312	-.01772	-.07632	.13587	-.56169
.982	2.293	.01290	.06282	.13736	.06472	.00351	.00324	-.01918	.05727	.13977	.40975
.981	4.430	.01171	.18992	.13802	.04951	.00366	.00357	-.01996	.17870	.15227	1.17353
.980	7.439	.01055	.37228	.14154	.02170	.00342	.00331	-.01931	.35080	.18855	1.86055
.980	9.048	.01007	.47164	.14478	.00488	.00318	.00292	-.01640	.44300	.21715	2.04007
.982	10.996	.01068	.59350	.14949	-.01741	.00345	.00264	-.01648	.55409	.25995	2.13151
.979	13.150	.02068	.72601	.14652	-.03817	.00336	-.00134	-.01270	.67363	.30784	2.18823
.981	15.351	.02396	.85012	.14937	-.05004	.00362	-.00179	-.01415	.78025	.36910	2.11395
.980	17.538	.01613	.99099	.15252	-.05227	.00279	-.00061	-.01148	.86121	.43107	1.99786
.980	19.757	.01564	1.06466	.15349	-.05901	.00212	-.00030	-.01219	.95011	.50434	1.88389

RUN NO. 8/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.079	-2.165	.00975	-.19700	.15905	.10007	.00486	.00292	-.01591	-.19085	.16638	-1.14704
1.080	-.043	.01187	-.06991	.15979	.07943	.00441	.00314	-.01909	-.06979	.15984	-.43660
1.080	2.213	.01227	.06786	.16007	.05623	.00393	.00339	-.01914	.06163	.16257	.37909
1.079	4.311	.01178	.19252	.16436	.03607	.00366	.00349	-.02031	.17962	.17837	1.00703
1.079	6.715	.01145	.33247	.16784	.01425	.00362	.00405	-.02158	.31096	.20561	1.51239
1.080	8.961	.01091	.46300	.16854	-.00731	.00302	.00322	-.01775	.43110	.23860	1.80690
1.079	10.993	.01145	.58638	.16716	-.02870	.00308	.00225	-.01558	.54377	.27582	1.97149
1.081	13.228	.01386	.71667	.16325	-.04684	.00343	.00205	-.01326	.66030	.32291	2.04483
1.082	15.390	.01530	.83432	.15956	-.05940	.00391	.00021	-.01222	.76206	.37525	2.03079
1.078	17.641	.01693	.93749	.16310	-.06041	.00234	-.00058	-.01126	.84367	.44013	1.91685

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RHI009)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	10.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-10.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 79/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.999	-2.136	.00853	-.22516	.07400	.07274	.01451	.00132	-.01635	-.22224	.08234	-2.69906
.800	-.134	.01091	-.13274	.07625	.06998	.01492	.00106	-.01900	-.13256	.07656	-1.73134
.999	2.103	.01286	-.02155	.07507	.06623	.01580	.00099	-.02168	-.02429	.07423	-.32729
.999	4.061	.01335	.07901	.07055	.06376	.01654	.00098	-.02240	.06982	.07568	.92263
.998	6.300	.01349	.18254	.06137	.06420	.01794	.00098	-.02270	.17470	.08103	2.15607
.999	8.620	.01236	.30116	.04988	.06599	.01963	.00093	-.02070	.29028	.09445	3.07327
.999	10.479	.01137	.40420	.04736	.06054	.02020	.00222	-.02351	.38884	.12008	3.23822
.999	12.632	.01103	.52481	.05008	.05245	.02092	.00178	-.02177	.50116	.16364	3.06255
.999	14.939	.01243	.65022	.05315	.04464	.01995	.00045	-.02008	.61492	.21730	2.82204
.998	16.764	.01284	.73725	.06323	.04065	.01832	-.00069	-.01748	.68768	.27319	2.51724
.998	18.895	.01411	.86557	.06305	.03149	.01881	-.00144	-.01734	.79851	.33996	2.34997
.998	20.904	.01483	.97566	.06031	.03194	.01729	-.00197	-.01722	.88993	.40446	2.20030
.998	21.952	.01409	1.03919	.05957	.03283	.01546	-.00236	-.01506	.94158	.44372	2.12200

RUN NO. 69/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.799	-2.136	.00928	-.23350	.08058	.08484	.01150	.00184	-.01460	-.23034	.08922	-2.58163
.801	-.134	.01149	-.11634	.08247	.07756	.01180	.00142	-.01581	-.11644	.08272	-1.40770
.800	2.073	.01520	-.00673	.08156	.07032	.01219	.00100	-.01782	-.00968	.08127	-.11910
.798	4.267	.01519	.11573	.07791	.06127	.01286	.00079	-.01824	.10961	.08631	1.27000
.799	6.492	.01531	.24907	.07593	.05041	.01354	.00130	-.01896	.23791	.10344	2.29947
.799	8.757	.01470	.36941	.07743	.04287	.01316	.00090	-.01691	.35371	.13293	2.66298
.798	11.640	.01505	.51997	.08315	.03556	.01543	.00013	-.01540	.49152	.19615	2.64043
.798	12.998	.01647	.59498	.08601	.03407	.01743	-.00076	-.01424	.55064	.21538	2.55657
.799	14.888	.01616	.66993	.08897	.03634	.01491	-.00141	-.01209	.62458	.25811	2.41946
.798	17.190	.01978	.80746	.09440	.01947	.01696	-.00196	-.01464	.74349	.32991	2.26113
.799	19.218	.02237	.89031	.09802	.02178	.01761	-.00216	-.01663	.82943	.38561	2.09652
.798	21.364	.02253	.97057	.09993	.03431	.01675	-.00262	-.01577	.89747	.44554	1.94222
.799	22.399	.02306	.99438	.10195	.04919	.01617	-.00349	-.01385	.89051	.47317	1.88287

LA-48 9-FT TPT 68G RI-0898/139 ORB SPLIT ELEVON (RHI009)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	10.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-10.000	BOFLAP =	.000
SPOBRK =	25.000		

RUN NO. 99/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.991	-2.218	.00914	-.23373	.08407	.04826	.00755	.00141	-.01253	-.23031	.09304	-2.47537
.990	-.011	.01291	-.11062	.08643	.07749	.00790	.00106	-.01492	-.11061	.08645	-1.27946
.990	2.080	.01559	.01135	.08587	.06624	.00868	.00048	-.01562	.00822	.08622	.09535
.989	4.401	.01712	.15003	.08412	.05220	.00869	.00061	-.01746	.14313	.09539	1.50061
.989	6.676	.01536	.27926	.08648	.04219	.01095	.00074	-.01629	.26731	.11936	2.25848
.990	9.394	.01599	.42436	.09116	.03256	.01106	.00004	-.01446	.40379	.15920	2.53633
.990	10.647	.01622	.50322	.09408	.02462	.01201	-.00050	-.01349	.47653	.18710	2.54690
.989	12.980	.01887	.60501	.09765	.02054	.01467	-.00171	-.01245	.56752	.23104	2.45691
.989	15.186	.01931	.69437	.10295	.02371	.01362	-.00150	-.01274	.64329	.28092	2.29046
.989	17.371	.01972	.80143	.10752	.01607	.01293	-.00146	-.01441	.73279	.34198	2.14335
.989	19.107	.02327	.88163	.10957	.01500	.01310	-.00291	-.01363	.79725	.39214	2.03306
.988	21.406	.02491	.97772	.10999	.02164	.01220	-.00357	-.01352	.87017	.45915	1.89517
.990	22.457	.02581	1.00418	.11138	.03414	.01155	-.00512	-.00999	.88548	.49652	1.82001

RUN NO. 49/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.177	.00970	-.22583	.09909	.03388	.00719	.00215	-.01475	-.22205	.10360	-2.14347
.903	-.034	.01146	-.10397	.09660	.04329	.00791	.00263	-.01765	-.10392	.09666	-1.07505
.900	.219	.01377	-.08215	.09696	.05676	.00782	.00198	-.01771	-.08252	.09665	-.85388
.901	2.216	.01635	.04127	.09678	.06136	.00825	.00189	-.01963	.03750	.09830	.38143
.900	4.333	.01767	.17113	.09718	.04536	.01018	.00175	-.02044	.16330	.10943	1.49209
.900	6.468	.01622	.29294	.10048	.03902	.00984	.00288	-.01659	.28086	.13171	2.13233
.899	8.414	.01725	.41661	.10508	.02273	.01042	.00301	-.01435	.39359	.16769	2.35321
.900	10.939	.01940	.55534	.10419	.00779	.01233	-.00044	-.01554	.52509	.20779	2.43069
.900	13.120	.02005	.65129	.11071	.00486	.01343	-.00200	-.01159	.61868	.25111	2.34928
.899	15.295	.01734	.72699	.11535	.00686	.01018	-.00102	-.01234	.67081	.30304	2.21365
.901	17.916	.02104	.83606	.11819	-.00055	.00974	-.00234	-.01178	.76172	.36434	2.09072
.900	19.569	.02367	.93674	.12135	-.00179	.01004	-.00357	-.01074	.84199	.42910	1.96690
.900	21.641	.02488	1.01347	.12339	.00532	.01039	-.00455	-.01288	.90695	.49845	1.83548
.900	22.940	.02752	1.03792	.12323	.01196	.00945	-.00434	-.01241	.91095	.51227	1.77825

LA-48 8-FT TPT 60D RI-0898/139 CRB SPLIT ELEVON (RH1009)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	10.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-10.000	BDFLAP =	.000
SPOORK =	25.000		

RUN NO. 39/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.920	-2.170	.00848	-.22602	.10227	.10037	.00742	.00263	-.01498	-.22198	.11075	-2.00432
.920	.013	.01313	-.09045	.10333	.09071	.00791	.00269	-.01905	-.09048	.10331	-.87579
.921	2.204	.01590	.04698	.10343	.08061	.00816	.00201	-.02076	.04296	.10516	.40850
.920	4.363	.01674	.17673	.10497	.06765	.00961	.00226	-.02091	.16924	.11901	1.42565
.920	6.521	.01622	.29118	.10702	.03917	.01015	.00140	-.01794	.27714	.13940	1.98907
.920	8.715	.01676	.41593	.10947	.02498	.00949	.00059	-.01592	.39415	.17117	2.30269
.920	10.891	.01928	.54169	.11334	.00372	.01232	.00011	-.01674	.51052	.21365	2.38953
.919	13.049	.02050	.64303	.11478	.00087	.01254	-.00198	-.01164	.60130	.25717	2.33916
.921	15.213	.01732	.74512	.11945	-.00461	.00990	-.00076	-.01268	.69756	.31117	2.20937
.920	17.346	.02109	.85302	.12226	-.01540	.00876	-.00259	-.01066	.77777	.37102	2.09629
.921	19.509	.02638	.95612	.12513	-.01733	.00900	-.00342	-.01187	.85944	.43724	1.96560
.918	21.647	.02479	1.02475	.12749	-.00691	.00881	-.00433	-.01292	.90916	.49400	1.82565
.917	22.363	.02459	1.05436	.12791	-.00305	.00874	-.00469	-.01362	.92644	.51935	1.78383

RUN NO. 29/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.951	-2.171	.00967	-.23136	.11901	.11445	.01039	.00336	-.01792	-.22684	.12369	-1.83397
.951	.024	.01313	-.09610	.11707	.09466	.01002	.00343	-.02214	-.09615	.11704	-.73605
.951	2.215	.01635	.05648	.11722	.06371	.01051	.00307	-.02245	.05191	.11931	.43509
.950	4.407	.01624	.19500	.11812	.04362	.01124	.00325	-.02290	.18535	.13275	1.39622
.950	6.597	.01679	.31455	.11503	.03143	.01140	.00272	-.02187	.30277	.15495	1.95529
.951	8.757	.01637	.44787	.11774	.01102	.01110	.00190	-.01911	.42411	.18851	2.24976
.949	10.955	.01654	.57747	.12199	-.00833	.01212	.00102	-.01682	.54377	.22949	2.36942
.952	13.133	.01628	.69661	.12348	-.02041	.01050	-.00086	-.01704	.65034	.27853	2.33447
.949	15.271	.02104	.79749	.12555	-.02909	.00921	-.00236	-.01126	.73627	.33116	2.22332
.952	17.425	.02317	.90496	.13002	-.04421	.00799	-.00349	-.00914	.82450	.39506	2.08704
.950	19.599	.02721	1.01677	.13348	-.04917	.00930	-.00476	-.00911	.91309	.46691	1.95601
.950	21.744	.03041	1.11219	.13900	-.03064	.01064	-.00003	-.01719	.99114	.54199	1.82852
.950	22.711	.03221	1.14299	.13970	-.02273	.00773	-.00436	-.02074	1.00045	.56909	1.75801

LA-48 A-FT TPT 680 RI-0998/139 ORB SPLIT ELEVON (RHI009)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	10.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-10.000	SDFLAP =	.000
SPOBRK =	25.000		

RUN NO. 19/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.196	.00932	-.2[illegible]737	.13384	.11597	.01[illegible]	.00414	-.01974	-.22207	.14245	-1.55893
.981	.096	.01405	-.08339	.13421	.09068	.01091	.00379	-.02241	-.08781	.13409	-.65552
.981	2.269	.01493	.05909	.14008	.06710	.01041	.00368	-.02272	.[illegible]032	.14228	.36919
.980	4.434	.01471	.19345	.14111	.04447	.01266	.00470	-.02573	.18195	.15566	1.16891
.979	6.672	.01415	.32923	.14365	.02493	.01242	.00456	-.02488	.31031	.18093	1.71506
.980	8.835	.01370	.46474	.14960	.00159	.01151	.00404	-.02307	.43627	.21849	1.99696
.982	11.151	.01445	.61574	.15373	-.02506	.01[illegible]42	.00316	-.02176	.56949	.26995	2.11742
.980	13.180	.02428	.73031	.15020	-.04266	.01070	-.00110	-.01634	.67583	.31275	2.16409
.981	15.651	.02608	.87428	.15320	-.05696	.01012	-.00233	-.01427	.[illegible]0054	.38337	2.08915
.980	17.715	.01925	.98453	.15521	-.05868	.00915	-.00166	-.01002	.87537	.44256	1.97799
.979	19.847	.01954	1.07758	.15623	-.06431	.00922	-.00153	-.01[illegible]05	.96006	.51262	1.87285

RUN NO. 9/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.079	-2.233	.01117	-.20536	.16309	.10424	.01120	.00359	-.01991	-.19905	.17099	-1.16422
1.081	-.024	.01212	-.07549	.16339	.08416	.01105	.00342	-.02032	-.07541	.16342	-.46145
1.080	.754	.01469	-.02690	.16402	.07373	.01078	.00342	-.02102	-.02906	.16365	-.17755
1.080	2.333	.01575	.07447	.16511	.05507	.01078	.00376	-.02282	.06769	.16403	.40289
1.081	4.464	.01729	.20308	.16738	.03246	.01146	.00505	-.02639	.18962	.16859	1.12479
1.080	6.732	.01306	.33565	.17134	.00937	.01142	.00522	-.02529	.31424	.20362	1.49908
1.080	8.866	.01322	.46501	.17235	-.01171	.01026	.00471	-.02392	.43299	.24106	1.79909
1.080	11.[illegible]	.01421	.[illegible]9029	.16957	-.03415	.[illegible]0946	.[illegible]319	-.02[illegible]16	.55559	.28147	1.97549
1.082	13.182	.01[illegible]6	.71690	.16625	-.05046	.01064	.[illegible]0133	-.01[illegible]02	.66009	.32536	2.02893
1.079	15.364	.01955	.83573	.16390	-.06214	.01131	.[illegible]0134	-.01[illegible]84	.77244	.37047	2.[illegible]321
1.077	17.047	.01941	.96516	.16673	-.06745	.00937	-.00191	-.[illegible]0021	.86603	.45754	1.89290

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (PHI010)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-15.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-25.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 80/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.598	-2.107	.00251	-.32593	.07686	.12484	.00382	.00301	-.01270	-.32288	.08879	-3.63648
.600	.047	.00412	-.21782	.07961	.12024	.00372	.00255	-.01364	-.21789	.07943	-2.74302
.599	1.942	.00376	-.12165	.07857	.11620	.00352	.00218	-.01492	-.12429	.07432	-1.67245
.599	4.171	.00688	-.01000	.07336	.11290	.00345	.00166	-.01504	-.01531	.07244	-.21129
.599	6.799	.00531	.11894	.06215	.11283	.00237	.00102	-.01083	.11074	.07579	1.46113
.599	8.327	.00580	.19433	.05513	.11259	.00169	.00088	-.01117	.18430	.08269	2.22976
.599	10.527	.00489	.32335	.05201	.10297	-.00042	.00056	-.00990	.30841	.11021	2.79835
.598	12.638	.00466	.43028	.05623	.09624	-.00291	.00023	-.00766	.40756	.14901	2.73511
.598	14.646	.00527	.54019	.05628	.09425	-.00195	.00017	-.00844	.50841	.19103	2.66140
.597	16.851	.00500	.63978	.06314	.09042	-.00248	.00004	-.00773	.59305	.24560	2.41467
.598	18.726	.00615	.74401	.06411	.08783	.00017	.00004	-.00959	.69404	.29957	2.28339
.597	20.982	.00668	.87282	.06235	.08751	.00227	.00003	-.01055	.79262	.37075	2.13789
.597	22.209	.00694	.94638	.06127	.08752	.00347	.00009	-.01123	.85301	.41445	2.05819

RUN NO. 70/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.798	-2.204	.00079	-.33504	.08436	.14021	.00365	.00408	-.01304	-.33155	.09718	-3.41172
.801	-.070	.00405	-.22059	.08649	.13174	.00386	.00352	-.01451	-.22048	.08676	-2.54126
.799	1.963	.00616	-.10748	.08494	.12364	.00357	.00298	-.01496	-.11033	.08121	-1.35859
.798	4.340	.00721	.02609	.08032	.11345	.00253	.00248	-.01450	.01993	.08207	.24287
.799	6.275	.00668	.14565	.07966	.09966	.00091	.00210	-.01285	.13717	.09422	1.45584
.799	8.241	.00721	.26698	.07891	.08510	-.00136	.00093	-.00990	.25482	.11673	2.18300
.799	10.493	.00754	.39367	.08141	.07251	-.00287	.00022	-.00914	.37226	.15174	2.45333
.799	12.915	.00900	.51953	.08473	.06568	-.00374	-.00101	-.00598	.48745	.19870	2.45314
.798	15.135	.00916	.62966	.08785	.06525	-.00457	-.00157	-.00455	.58498	.24920	2.34709
.798	17.047	.01333	.73749	.09146	.05566	-.00220	-.00177	-.00832	.67927	.30364	2.23580
.797	19.235	.01644	.83290	.09486	.05522	-.00303	-.00182	-.01156	.75515	.36397	2.07478
.798	21.493	.02003	.91457	.10007	.07299	-.00439	-.00347	-.01064	.81431	.42820	1.90170
.799	22.366	.02148	.93134	.10214	.08440	-.00521	-.00403	-.01056	.82241	.44985	1.83225

LA-48 9-FT TPT 6A0 RI-089B/139 GRB SPLIT ELEVON (RH1010)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-15.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-25.000	RDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 60/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.849	-2.195	.00273	-.32790	.08726	.14456	.00213	.00302	-.01156	-.32432	.09975	-3.25122
.851	.008	.00870	-.20366	.08895	.13289	.00216	.00263	-.01333	-.20367	.08892	-2.29042
.851	2.164	.00944	-.07690	.08738	.11959	.00163	.00185	-.01413	-.08014	.08442	-.94936
.850	4.376	.00952	.06607	.08588	.10188	.00054	.00159	-.01345	.05932	.09067	.65426
.850	6.452	.00892	.19053	.08715	.08476	-.00107	.00109	-.01144	.17953	.10801	1.66218
.849	8.643	.00961	.32570	.09002	.06752	-.00276	.00024	-.00956	.30947	.13795	2.23619
.849	10.786	.01032	.44213	.09390	.05636	-.00359	-.00061	-.00771	.41674	.17498	2.38161
.850	13.164	.01181	.56619	.09737	.04602	-.00406	-.00170	-.00589	.52914	.22375	2.36497
.849	15.316	.01375	.66610	.10031	.04418	-.00436	-.00132	-.00895	.61595	.27269	2.25879
.849	17.251	.01621	.75016	.10494	.04555	-.00513	-.00161	-.01062	.68530	.32269	2.12372
.849	19.299	.02044	.83382	.10944	.05051	-.00613	-.00303	-.01059	.75585	.37958	1.99128
.850	21.363	.02403	.91489	.11229	.06438	-.00508	-.00373	-.01225	.81112	.43785	1.85251
.849	22.749	.02654	.93422	.11502	.08319	-.00469	-.00478	-.01191	.81707	.46733	1.74837

RUN NO. 50/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.901	-2.244	.00279	-.33206	.10020	.15963	.00251	.00382	-.01387	-.32788	.11313	-2.89833
.900	-.090	.00774	-.20186	.10000	.14193	.00210	.00322	-.01626	-.20170	.10032	-2.01068
.901	2.094	.01405	-.06339	.09934	.12246	.00153	.00261	-.01471	-.06696	.09697	-.69056
.900	4.323	.01067	.08167	.09947	.09997	.00083	.00201	-.01517	.07401	.10435	.70923
.900	6.534	.01057	.22559	.10149	.07921	-.00119	.00099	-.01205	.21257	.12650	1.68043
.900	8.679	.01150	.35400	.10495	.05795	-.00279	.00020	-.01053	.33411	.15715	2.12596
.899	10.820	.01283	.47434	.10789	.04137	-.00476	-.00079	-.00891	.44624	.19512	2.28771
.902	13.076	.01532	.57525	.11284	.04493	-.00597	-.00187	-.00778	.53490	.24006	2.22777
.899	15.302	.01541	.67213	.11655	.04439	-.00369	-.00124	-.00993	.61755	.28979	2.13099
.899	17.258	.01678	.77200	.12001	.03973	-.00329	-.00153	-.01142	.70199	.34249	2.04967
.899	19.396	.01975	.87382	.12375	.03963	-.00264	-.00205	-.01174	.79412	.40409	1.96545
.900	21.569	.02369	.95172	.12530	.04990	-.00199	-.00259	-.01398	.83902	.46539	1.80195
.899	22.554	.02354	.97091	.12591	.06028	-.00233	-.00224	-.01506	.84927	.48864	1.73598

LA-48 8-FT TPT 680 R1-089B/139 ORB SPLIT ELEVON (RH1010)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-15.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-15.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 40/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.920	-2.264	.00237	-.34100	.10739	.17105	.00216	.00426	-.01477	-.33649	.12078	-2.78595
.921	-.051	.00674	-.20564	.10769	.15164	.00228	.00352	-.01618	-.20555	.10788	-1.90541
.920	2.153	.00932	-.05808	.10601	.12716	.00149	.00286	-.01639	-.06202	.10375	-.59778
.920	4.313	.01092	.08459	.10639	.10490	.00068	.00227	-.01589	.07635	.11245	.67891
.919	6.498	.01053	.22196	.10790	.08501	-.00079	.00139	-.01303	.20832	.13233	1.57425
.920	8.690	.01246	.35397	.11093	.06196	-.00335	.00051	-.01205	.33305	.16312	2.04178
.919	10.841	.01397	.48591	.11374	.03909	-.00448	-.00044	-.01057	.45585	.20311	2.24436
.920	13.011	.01563	.58621	.11708	.03967	-.00442	-.00196	-.00751	.54480	.24605	2.21418
.920	15.188	.01545	.69772	.12123	.03203	-.00220	.00000	-.01338	.64159	.29978	2.14020
.918	17.360	.01611	.80571	.12292	.02142	-.00246	-.00111	-.01040	.73234	.35772	2.04726
.920	19.487	.01913	.91188	.12557	.01813	-.00237	-.00161	-.01210	.81757	.42250	1.93506
.919	21.619	.02408	.99184	.12775	.03138	-.00179	-.00243	-.01435	.86570	.48051	1.80165
.918	22.593	.02294	1.00254	.13066	.04540	-.00329	-.00308	-.01156	.87541	.50579	1.73078

RUN NO. 30/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.951	-2.207	.00241	-.33810	.12071	.18279	.00170	.00418	-.01452	-.33320	.13364	-2.49331
.952	-.023	.00701	-.19577	.12161	.15943	.00176	.00385	-.01724	-.19572	.12169	-1.60832
.951	2.164	.00963	-.04679	.11973	.13215	.00134	.00351	-.01933	-.05128	.11788	-.43502
.951	4.363	.01002	.10417	.11940	.10348	.00041	.00344	-.01846	.09479	.12698	.74647
.950	6.562	.01108	.24296	.12108	.08123	-.00129	.00255	-.01669	.22744	.14902	1.53649
.950	8.735	.01111	.38133	.12208	.05578	-.00271	.00139	-.01329	.35837	.17959	2.00679
.949	10.914	.01036	.51656	.12405	.03119	-.00293	.00139	-.01274	.49373	.21961	2.26271
.949	13.092	.01184	.63369	.12541	.02228	-.00227	.00025	-.01043	.59991	.26569	2.21617
.951	15.242	.01988	.75414	.12759	.00466	-.00199	-.00137	-.01254	.69407	.32136	2.15977
.951	17.434	.01795	.87331	.13030	-.01397	-.00178	-.00197	-.00930	.79415	.38598	2.05759
.950	19.611	.02117	.98404	.13293	-.01767	-.00126	-.00288	-.00954	.89234	.45549	1.93712
.950	21.790	.04407	1.07662	.13763	.00336	.00023	-.00596	-.02080	.94959	.52750	1.79826
.951	22.697	.04604	1.09956	.13909	.01354	-.00231	-.00557	-.02363	.96112	.55166	1.74224

LA-48 8-FT TPT 680 RI-0898/139 ORB SPLIT ELEVON (RH1010)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-15.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-25.000	DOFLAP =	.000
SPDBRK =	25.000		

RUN NO. 20/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.235	.00299	-.33601	.14328	.18553	.00213	.00452	-.01594	-.33017	.15624	-2.11273
.981	-.104	.00691	-.19779	.14439	.16158	.00198	.00445	-.01879	-.19753	.14475	-1.36459
.981	2.199	.00986	-.03992	.14289	.13106	.00086	.00472	-.02192	-.04537	.14126	-.32117
.980	4.245	.01063	.09755	.14405	.10537	.00017	.00421	-.02103	.09661	.13587	.57410
.980	6.551	.01036	.24626	.14710	.07967	-.00046	.00330	-.01811	.22787	.17423	1.30790
.979	8.787	.01018	.39221	.14991	.05171	-.00210	.00201	-.01415	.36471	.20806	1.75288
.981	10.941	.00915	.53058	.15317	.02308	-.00219	.00218	-.01349	.49194	.25108	1.95890
.979	13.453	.01716	.67752	.15191	.00359	-.00147	.00001	-.01392	.62358	.30337	2.04209
.982	15.331	.01909	.79564	.15514	-.01132	-.00118	-.00035	-.01450	.72631	.35999	2.01758
.982	17.564	.01213	.90711	.15661	-.01919	-.00126	.00055	-.01165	.81756	.42305	1.93256
.979	19.742	.01032	1.02161	.15612	-.02696	-.00159	.00134	-.01255	.90992	.49203	1.84710

RUN NO. 19/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.079	-2.299	.00535	-.30227	.17060	.16604	.00181	.00425	-.01666	-.29518	.18259	-1.61668
1.080	-.051	.00799	-.16020	.17048	.13994	.00123	.00460	-.01965	-.16005	.17062	-.93805
1.080	2.149	.01014	-.01569	.16995	.11201	.00040	.00419	-.02000	-.02203	.16914	-.13027
1.080	4.360	.01046	.12338	.17374	.08498	-.00023	.00366	-.01896	.10982	.18261	.60136
1.079	6.766	.01068	.27182	.17838	.05690	-.00074	.00320	-.01749	.24991	.20916	1.19005
1.079	8.775	.00984	.39455	.17790	.03355	-.00157	.00276	-.01557	.36279	.23600	1.53724
1.080	10.994	.00968	.53222	.17422	.00667	-.00211	.00198	-.01316	.49927	.27243	1.79596
1.079	13.229	.00877	.66091	.16907	-.00873	-.00208	.00150	-.01110	.60469	.31591	1.91471
1.081	15.409	.01085	.77371	.16423	-.01847	-.00185	.00145	-.01255	.70226	.36391	1.92979
1.078	18.036	.01232	.91702	.16670	-.03355	-.00066	.00041	-.01070	.82035	.44242	1.85423

LA-48 8-FT TPT 89O RI-0898/139 ORB SPLIT ELEVON (RHI011)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-30.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 96/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.600	-2.154	.00193	-.31251	.07428	.11628	.00700	.00380	-.01423	-.30950	.08599	-3.60078
.601	-.054	.00385	-.20969	.07669	.11148	.00691	.00323	-.01526	-.20961	.07689	-2.72618
.601	2.008	.00582	-.10397	.07566	.10793	.00646	.00272	-.01631	-.10856	.07190	-1.50981
.600	4.118	.00615	-.00587	.07091	.10564	.00582	.00234	-.01596	-.01094	.07030	-.15565
.600	6.234	.00573	.09781	.06224	.10678	.00457	.00188	-.01401	.09048	.07250	1.24795
.599	8.311	.00542	.20158	.05237	.10800	.00295	.00149	-.01241	.19149	.08095	2.37039
.601	10.424	.00490	.32361	.05029	.09797	.00039	.00147	-.01105	.30917	.10801	2.86232
.600	12.513	.00494	.43968	.05318	.09052	.00045	.00066	-.00933	.41772	.14718	2.83821
.599	14.620	.00531	.55147	.05393	.08612	.00266	.00092	-.01073	.52968	.19390	2.73165
.600	16.709	.00547	.65180	.06114	.08198	.00168	.00060	-.01008	.60670	.24596	2.46669
.600	18.818	.00609	.77382	.06227	.07801	.00475	.00060	-.01115	.71237	.30855	2.30879

RUN NO. 93/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.237	-.00186	-.32241	.08258	.13373	.00674	.00551	-.01473	-.31895	.09510	-3.35363
.801	-.071	.00097	-.20579	.08430	.12439	.00643	.00495	-.01582	-.20568	.08455	-2.43263
.800	2.055	.00448	-.09144	.08265	.11679	.00603	.00420	-.01698	-.09434	.07932	-1.18942
.800	4.232	.00611	.03252	.07863	.10846	.00492	.00361	-.01690	.02663	.08082	.32949
.800	6.359	.00507	.16156	.07694	.09497	.00219	.00293	-.01377	.15204	.09437	1.61121
.800	8.546	.00563	.29108	.07803	.08097	-.00112	.00194	-.01107	.27625	.12042	2.29415
.799	10.681	.00639	.40776	.08052	.07095	-.00307	.00078	-.00870	.38577	.15469	2.49377
.800	12.842	.00779	.51433	.08326	.06768	-.00469	-.00024	-.00708	.48296	.19549	2.47049
.799	14.973	.00836	.61439	.08688	.06962	-.00692	-.00152	-.00388	.57109	.24264	2.35367
.799	17.136	.01304	.73933	.09061	.05820	-.00333	-.00167	-.00830	.67981	.30443	2.23311
.799	19.254	.01484	.83596	.09498	.05688	-.00384	-.00134	-.01133	.75788	.36533	2.07448
.800	21.373	.01803	.91603	.09835	.06914	-.00341	-.00241	-.01162	.81719	.42543	1.92084
.800	22.299	.01962	.93729	.10001	.08032	-.00384	-.00294	-.01193	.82933	.44803	1.85106

LA-48 8-FT TPT 68G RI-0898/139 ORB SPLIT ELEVON (FHI011)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-30.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 92/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.950	-2.249	.00312	-.31794	.08666	.13951	.00812	.00519	-.01570	-.31429	.09907	-3.17248
.950	-.079	.00460	-.19719	.08830	.12863	.00780	.00453	-.01778	-.19707	.08857	-2.22507
.951	2.099	.00449	-.06908	.08673	.11558	.00690	.00351	-.01826	-.07221	.08414	-.85820
.949	4.258	.00952	.06338	.08520	.09949	.00476	.00279	-.01702	.05698	.08967	.63528
.950	6.432	.00910	.20092	.08681	.08149	.00162	.00195	-.01419	.19993	.10877	1.74605
.949	8.591	.00969	.32557	.08898	.06634	-.00119	.00078	-.01126	.30962	.13662	2.25903
.949	10.737	.01232	.44355	.09259	.05572	-.00424	-.00072	-.00926	.41853	.17360	2.41043
.950	12.893	.01291	.54655	.09549	.05125	-.00586	-.00139	-.00796	.51142	.21534	2.37498
.950	15.036	.01498	.64295	.09993	.05268	-.00625	-.00239	-.00595	.59502	.26330	2.25980
.949	17.170	.01662	.74538	.10445	.04953	-.00559	-.00262	-.00797	.68122	.32007	2.12835
.950	19.334	.02095	.84867	.10642	.04726	-.00406	-.00273	-.01196	.76561	.38134	2.00770
.949	21.452	.02408	.92700	.10957	.05926	-.00327	-.00287	-.01489	.82271	.44101	1.86552
.949	22.374	.02443	.94166	.11163	.07228	-.00340	-.00372	-.01294	.82927	.46168	1.79606

RUN NO. 89/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.901	-2.243	.00090	-.32979	.10019	.15773	.00790	.00600	-.01872	-.32562	.11302	-2.88105
.901	-.042	.00530	-.19559	.10028	.14033	.00757	.00503	-.01962	-.19551	.10042	-1.94691
.902	2.110	.00811	-.05718	.09958	.12016	.00650	.00439	-.02005	-.06981	.09741	-.71673
.900	4.315	.01025	.08435	.09841	.09961	.00403	.00318	-.01834	.07670	.10448	.73414
.901	6.504	.01038	.22551	.10129	.07895	.00101	.00194	-.01473	.21259	.12618	1.68468
.901	8.654	.01259	.35599	.10555	.05967	-.00335	.00040	-.01205	.33595	.15790	2.12762
.900	10.826	.01371	.47315	.10698	.04457	-.00475	-.00075	-.00991	.44662	.19422	2.29950
.901	12.995	.01551	.576 6	.11037	.04446	-.00555	-.00119	-.01000	.53659	.23711	2.26307
.901	15.157	.01556	.67704	.11366	.04121	-.00417	-.00059	-.01196	.62377	.29673	2.17545
.900	17.278	.01652	.79233	.11660	.03420	-.00262	-.00125	-.01103	.71239	.34369	2.07275
.901	19.468	.01945	.89227	.11905	.03175	-.00115	-.00197	-.01234	.80158	.40961	1.95692
.901	21.605	.02432	.95091	.12272	.04449	-.00063	-.00199	-.01661	.84728	.46754	1.81220
.900	22.495	.02418	.97629	.12305	.05410	-.00060	-.00144	-.01904	.85493	.48721	1.75475

LA-48 8-FT TPT 680 RI-0898/139 CRB SPLIT ELEVON (RHI011)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-30.000	SDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 88/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.920	-2.246	.00054	-.33009	.10708	.16559	.00890	.00699	-.02144	-.32564	.11993	-2.71529
.922	-.051	.00582	-.19446	.10830	.14718	.00877	.00591	-.02259	-.19437	.10847	-1.79188
.920	2.136	.00991	-.05054	.10549	.12192	.00727	.00490	-.02300	-.05444	.10354	-.52582
.919	4.344	.01094	.09695	.10613	.09988	.00493	.00405	-.02134	.08863	.11317	.78323
.920	6.513	.01144	.22671	.10795	.08330	.00060	.00253	-.01722	.21301	.13287	1.60312
.919	8.687	.01284	.36109	.11004	.05956	-.00265	.00096	-.01375	.34033	.16331	2.08389
.920	10.849	.01458	.49786	.11246	.04140	-.00416	-.00021	-.01177	.45797	.20227	2.26414
.919	13.008	.01554	.59441	.11376	.03556	-.00370	-.00133	-.00945	.55355	.24463	2.26275
.921	15.189	.01561	.70949	.11843	.02692	-.00166	.00028	-.01434	.65368	.30019	2.17762
.919	17.328	.01583	.81572	.12103	.01651	-.00153	-.00104	-.01073	.74265	.35850	2.07156
.919	19.507	.01715	.91548	.12339	.01581	-.00091	-.00144	-.01087	.82173	.42201	1.94717
.919	21.646	.02340	.98993	.12596	.02775	-.00034	-.00194	-.01522	.87366	.49223	1.81169
.919	22.554	.02289	1.00615	.12994	.04130	-.00169	-.00251	-.01320	.87974	.50500	1.74206

RUN NO. 85/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.950	-2.232	.00076	-.34070	.12186	.14224	.00707	.00711	-.02196	-.33569	.13504	-2.48598
.952	-.042	.00544	-.20100	.12285	.15931	.00727	.00657	-.02412	-.20091	.12299	-1.63353
.951	2.159	.00835	-.04776	.12017	.12995	.00592	.00635	-.02584	-.05225	.11829	-.44172
.950	4.367	.00990	.10141	.11964	.10290	.00388	.00572	-.02524	.09201	.12701	.72440
.950	6.560	.01107	.24384	.12041	.07909	.00106	.00463	-.02113	.22944	.14797	1.54495
.951	8.737	.01212	.38495	.12229	.05251	-.00073	.00252	-.01749	.36191	.17933	2.01917
.951	10.902	.01189	.51864	.12238	.02700	-.00194	.00171	-.01493	.48613	.21927	2.22724
.950	13.102	.01275	.63701	.12286	.01930	-.00136	.00078	-.01205	.59257	.26406	2.24405
.951	15.268	.02400	.75990	.12623	.00248	-.00046	-.00091	-.01768	.69984	.32149	2.17419
.950	17.429	.01742	.87375	.12997	-.01659	-.00038	-.00120	-.01120	.79503	.38466	2.06696
.951	19.591	.01969	.94764	.13242	-.02099	.00052	-.00252	-.00935	.88656	.45591	1.94351
.951	21.777	.04339	1.07926	.13740	-.00041	.00218	-.00518	-.02222	.95034	.52762	1.80117
.953	22.714	.04448	1.10411	.13798	.00845	-.00019	-.00457	-.02521	.96517	.55367	1.74321

LA-48 8-FT TPT 680 RI-0898/139 CRB SPLIT ELEVON (RH1011)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	-20.000	ELV-RI =	-20.000
ELV-RO =	-30.000	BDFLAP =	.000
SPOBRK =	25.000		

RUN NO. 84/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.979	-2.218	.00150	-.32022	.14077	.17548	.00909	.00859	-.02699	-.31454	.15304	-2.05522
.980	-.004	.00387	-.17344	.14124	.14952	.00853	.00892	-.02993	-.17343	.14125	-1.22786
.980	2.193	.00750	-.02838	.14057	.12263	.00662	.00860	-.03159	-.03371	.13939	-.24187
.980	4.391	.00823	.11602	.14146	.09683	.00474	.00751	-.02907	.10488	.14990	.69963
.979	6.596	.00827	.25814	.14284	.07205	.00267	.00557	-.02329	.24002	.17155	1.39918
.980	8.779	.00878	.40059	.14668	.04443	.00057	.00410	-.01971	.37351	.20609	1.81232
.979	10.969	.01112	.54530	.14734	.01498	-.00065	.00234	-.01597	.50730	.24841	2.04221
.980	13.145	.01595	.67085	.15046	-.00043	-.00107	.00152	-.01738	.61905	.29908	2.06982
.979	15.332	.02063	.79980	.14970	-.01576	.00173	.00038	-.01801	.73079	.35559	2.05513
.979	17.508	.01939	.90912	.15398	-.02216	.00085	.00155	-.01324	.82068	.42035	1.95239
.980	19.667	.00943	1.02303	.15629	-.03033	.00067	.00224	-.01377	.91075	.49149	1.85307
.979	21.878	.00991	1.12736	.15619	-.02646	-.00006	.00131	-.01236	.99798	.56502	1.76859
.976	22.758	.01016	1.15655	.15412	-.01772	-.00016	.00153	-.01332	1.00649	.59022	1.70525

RUN NO. 81/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.081	-2.198	-.00422	-.29711	.16737	.15757	.00815	.00975	-.02621	-.28047	.17926	-1.57336
1.081	-.003	.00001	-.14949	.16710	.13377	.00738	.00956	-.02971	-.14948	.16711	-.89448
1.080	2.203	.00309	-.02557	.16826	.10587	.00541	.00903	-.02038	-.01204	.16792	-.07168
1.079	4.430	.00412	.13525	.17239	.07866	.00376	.00796	-.02694	.12163	.18233	.66710
1.079	6.604	.00442	.26927	.17406	.05325	.00241	.00683	-.02377	.24747	.20399	1.21379
1.079	8.795	.00304	.40611	.17397	.02660	.00052	.00575	-.02021	.37479	.23304	1.60807
1.080	11.006	.00502	.54524	.16998	.00044	-.00073	.00428	-.01661	.50276	.27703	1.81570
1.080	13.201	.00463	.66611	.16553	-.01351	-.00041	.00376	-.01479	.61071	.31329	1.94941
1.081	15.402	.00495	.78191	.16248	-.02412	.00138	.00394	-.01550	.71059	.36426	1.95077
1.082	17.597	.00431	.89391	.16390	-.03477	.00162	.00199	-.01200	.80260	.42634	1.88254

LA-48 8-FT TPT 080 RI-0998/139 CRB SPLIT ELEVON (RH1012)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-20.000	BDFLAP =	.000
SPOBRK =	25.000		

RUN NO. 95/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.801	-2.097	.00415	-.18677	.06268	.05680	.00718	.00220	-.01262	-.18435	.06945	-2.65447
.802	.003	.00630	-.08798	.06452	.05508	.00700	.00212	-.01547	-.08798	.06452	-1.36389
.801	2.081	.00722	.00935	.06323	.05365	.00674	.00197	-.01607	.00709	.06352	.11165
.799	4.194	.00771	.11227	.05906	.05245	.00747	.00168	-.01627	.10772	.06611	1.62929
.801	6.292	.00778	.21774	.04886	.05257	.00773	.00154	-.01594	.21108	.07243	2.91419
.800	8.365	.00721	.31818	.03806	.05300	.00713	.00133	-.01456	.30928	.08394	3.68418
.800	10.474	.00594	.43837	.04033	.04221	.00930	.00216	-.01511	.42373	.11935	3.55039
.800	12.569	.00732	.54988	.04482	.03506	.01013	.00116	-.01437	.52597	.16319	3.22301
.800	14.679	.00717	.67729	.04636	.02600	.01148	.00098	-.01368	.64344	.21648	2.97233
.799	16.756	.00811	.79184	.05466	.01838	.01044	.00023	-.01298	.73288	.27774	2.63873
.800	18.865	.0102	.90767	.05421	.01074	.01174	-.00034	-.01467	.84139	.34478	2.44035

RUN NO. 94/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.800	-2.150	.00444	-.19168	.06758	.06363	.00792	.00356	-.01503	-.18901	.07472	-2.52938
.801	-.006	.00594	-.08196	.06951	.05922	.00693	.00329	-.01567	-.08196	.06952	-1.17894
.799	2.114	.00819	.02491	.06813	.05516	.00677	.00266	-.01696	.02238	.06901	.32425
.799	4.242	.00991	.14728	.06478	.04867	.00602	.00261	-.01754	.14203	.07560	1.87887
.800	6.451	.00952	.26592	.06453	.03896	.00301	.00193	-.01513	.25699	.09450	2.72393
.799	8.573	.00938	.37834	.06688	.03142	.00166	.00129	-.01315	.36415	.12253	2.97190
.800	10.722	.00897	.48284	.07112	.02827	.00224	.00112	-.01227	.46128	.15073	2.99787
.799	12.853	.00911	.59232	.07458	.02514	.00337	.00058	-.01085	.55114	.20225	2.72501
.799	15.006	.01021	.69090	.07942	.02239	.00423	.00016	-.01079	.64677	.25560	2.53036
.799	17.161	.01562	.82736	.08457	.00767	.01030	-.00049	-.01449	.76557	.32492	2.35615
.799	19.289	.01618	.92298	.08799	.00423	.00961	-.00066	-.01472	.84210	.38793	2.17073

LA-48 8-FT TPT 640 RI-0898/139 CPB SPLIT ELEVON (RH1012)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-20.000	DOFLAP =	.000
SPOIRK =	25.000		

RUN NO. 91/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.850	-2.182	.00509	-.20250	.07290	.07407	.00794	.00365	-.01559	-.19961	.08038	-2.48325
.850	-.015	.00729	-.08406	.07473	.06620	.00726	.00325	-.01639	-.08405	.07475	-1.12449
.850	2.151	.01027	.03545	.07417	.05728	.00603	.00239	-.01651	.03265	.07545	.43267
.850	4.322	.01123	.16412	.07373	.04518	.00333	.00199	-.01620	.15809	.08589	1.84071
.849	6.491	.01029	.28334	.07791	.03514	-.00090	.00036	-.01229	.27274	.10940	2.49312
.849	8.618	.00974	.39115	.08186	.02844	-.00203	.00021	-.00957	.37447	.13956	2.68328
.850	10.757	.01041	.49720	.08690	.02665	-.00101	-.00069	-.00754	.46242	.17630	2.62202
.849	12.906	.01116	.59629	.09854	.02294	.00006	-.00026	-.00964	.55170	.21725	2.53949
.849	15.069	.01349	.69349	.09321	.02020	.00550	-.00020	-.01207	.64541	.27030	2.38778
.849	17.221	.01541	.78854	.09771	.00997	.00616	-.00106	-.01149	.74337	.33270	2.23432
.849	19.378	.01758	.88047	.09991	.00426	.00764	-.00121	-.01330	.83521	.39956	2.09031
.850	21.499	.01973	1.01129	.10203	.00938	.00664	-.00221	-.01165	.96352	.46555	1.84077
.850	22.419	.01703	1.02274	.10311	.02367	.00404	-.00412	-.00435	.97612	.48536	1.86692

RUN NO. 90/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.900	-2.169	.00530	-.18398	.08530	.07137	.01078	.00569	-.02154	-.18062	.09220	-1.95910
.901	.006	.00922	-.05635	.08779	.05668	.00996	.00521	-.02350	-.05636	.08778	-.64198
.901	2.209	.01094	.07632	.08762	.04208	.00813	.00459	-.02312	.07298	.09050	.80635
.900	4.363	.01054	.19725	.08935	.03664	.00662	.00268	-.01707	.17990	.10334	1.74096
.900	6.516	.01059	.30155	.09143	.02702	-.00243	.00149	-.01357	.28323	.12506	2.31271
.900	8.668	.00962	.40402	.09332	.01854	-.00193	.00099	-.01126	.38709	.15573	2.48732
.900	10.851	.01062	.51946	.09857	.01143	-.00153	.00104	-.01143	.49162	.19459	2.52637
.900	13.013	.01190	.62461	.10141	.00487	.00416	.00035	-.01149	.59573	.23945	2.44615
.900	15.171	.01294	.74267	.10573	-.00448	.00510	.00099	-.01443	.69912	.29640	2.32492
.899	17.317	.01420	.85373	.10908	-.01519	.00460	-.00066	-.01572	.79296	.35730	2.19105
.899	19.478	.01877	.95894	.11025	-.01619	.00568	-.00144	-.01270	.86730	.42370	2.04694
.899	21.628	.02209	1.03944	.11419	-.00755	.00473	-.00268	-.01224	.92325	.49989	1.84846
.900	22.533	.02136	1.05723	.11454	.00102	.00338	-.00263	-.01185	.93263	.51095	1.82530

LA-48 8-FT TPT 690 RI-0898/139 CAB SPLIT ELEVON (RH1012)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-20.000	BDFLAP =	.000
SPDBRK =	25.000		

RUN NO. 87/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.920	-2.149	.00601	-.19126	.09383	.04054	.00948	.00565	-.02198	-.18761	.10093	-1.85870
.919	.017	.00880	-.05223	.09552	.03915	.00856	.00553	-.02395	-.05225	.09551	-.54712
.920	2.221	.01059	.08159	.09547	.04155	.00613	.00455	-.02252	.07783	.09856	.78964
.919	4.345	.01115	.19621	.09605	.03649	-.00043	.00222	-.01670	.19829	.11077	1.69988
.919	6.548	.01065	.30910	.09777	.02739	-.00241	.00149	-.01344	.29495	.13226	2.23001
.920	8.706	.00918	.41636	.10127	.01831	-.00067	.00154	-.01239	.39624	.16313	2.42901
.920	10.873	.01078	.53523	.10406	.00533	.00132	.00102	-.01225	.50599	.20316	2.49061
.919	13.041	.01478	.64684	.10753	-.00622	.00427	-.00223	-.00597	.60589	.25072	2.41660
.920	15.212	.01263	.77374	.11027	-.01917	.00382	.00001	-.01098	.71770	.30942	2.31946
.919	17.361	.01678	.88954	.11252	-.03398	.00309	-.00160	-.00991	.81544	.37282	2.18725
.921	19.556	.01958	.99208	.11480	-.03557	.00371	-.00203	-.01124	.89643	.44025	2.03619
.919	21.658	.02336	1.05670	.11771	-.02144	.00498	-.00188	-.01538	.93966	.49939	1.87962
.917	22.583	.02151	1.09006	.12028	-.00960	.00191	-.00321	-.00996	.95106	.52583	1.80867

RUN NO. 86/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.950	-2.135	.00331	-.18666	.10708	.04704	.00914	.00605	-.02586	-.18254	.11396	-1.60183
.951	.026	.00731	-.09031	.10974	.06347	.00797	.00568	-.02299	-.09037	.10971	-.45906
.951	2.240	.00390	.08928	.10987	.04181	.00705	.00549	-.02451	.09492	.11329	.74964
.950	4.407	.00952	.21893	.10929	.02670	.00242	.00413	-.02015	.20988	.12579	1.66856
.951	6.599	.00915	.33564	.10931	.01462	.00110	.00253	-.01505	.32086	.14716	2.18034
.950	8.765	.00875	.46193	.11029	-.00312	.00240	.00189	-.01285	.43973	.17939	2.45122
.950	10.934	.00898	.58263	.11132	-.02035	.00268	.00179	-.01274	.55094	.21971	2.50764
.949	13.111	.01339	.70096	.11213	-.02929	.00345	-.00017	-.01063	.65725	.26822	2.45144
.952	15.296	.01469	.83766	.11748	-.05557	.00330	-.00077	-.01334	.77699	.33430	2.32421
.951	17.469	.01833	.95907	.11973	-.07546	.00239	-.00221	-.00891	.87690	.40210	2.18076
.949	19.620	.02220	1.05915	.12172	-.07140	.00291	-.00398	-.00717	.95293	.46991	2.03220
.950	21.826	.04820	1.14379	.12764	-.04956	.00630	-.00671	-.02189	1.01434	.54373	1.86546
.950	22.717	.04615	1.19975	.12952	-.03575	.00168	-.00731	-.01957	1.01976	.58734	1.79746

LA-48 8-FT TP 6A0 R1-0398/139 ORB SPLIT ELEVON (RH10.2)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	.000
ELV-LI =	-10.000	ELV-RI =	-10.000
ELV-RO =	-20.000	SDFLAP =	.000
SPOERK =	25.000		

RUN NO. 83/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.978	-2.145	.00105	-.19175	.12398	.09394	.00918	.00748	-.02329	-.18695	.13107	-1.42631
.941	.054	.00457	-.05540	.12951	.07106	.00781	.00757	-.02633	-.05552	.12945	-.42886
.940	2.249	.00572	.08301	.12851	.04914	.00708	.00747	-.02695	.07791	.13167	.59167
.940	4.430	.00632	.21745	.12784	.02993	.00435	.00623	-.02372	.20693	.14426	1.43443
.940	6.615	.00746	.34374	.13096	.01149	.00211	.00424	-.01895	.32638	.16967	1.92357
.941	8.796	.00742	.47574	.13359	-.01128	.00351	.00319	-.01548	.44971	.20477	2.19618
.978	10.994	.01029	.60571	.13513	-.03149	.00351	.00203	-.01436	.56881	.24820	2.29174
.941	13.158	.01569	.73953	.13935	-.05282	.00417	.00090	-.01539	.69839	.30403	2.26423
.941	15.369	.01877	.87252	.14354	-.07764	.00399	-.00020	-.01469	.80327	.36964	2.17311
.978	17.515	.01281	.98431	.14455	-.07701	.00285	.00028	-.01145	.89517	.43409	2.06220
.940	19.725	.01161	1.10462	.14892	-.08663	.00248	.00013	-.01009	.98954	.51299	1.92896
.976	21.887	.01440	1.19300	.14527	-.0 351	.00288	-.00021	-.01164	1.05295	.57952	1.81678

RUN NO. 82/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
1.041	-2.122	-.00017	-.15354	.14642	.07104	.00480	.00792	-.02367	-.14401	.15201	-.97369
1.041	.063	.00364	-.02595	.14712	.05177	.00796	.00779	-.02603	-.02611	.14709	-.17751
1.040	2.267	.00478	.10825	.14939	.02941	.00765	.00769	-.02658	.1038	.15358	.67235
1.040	4.470	.00559	.23931	.15195	.00674	.00524	.00667	-.02412	.22674	.17014	1.33267
1.041	6.659	.00562	.36051	.15224	-.01000	.00334	.00504	-.01929	.34043	.19302	1.76368
1.040	8.824	.00756	.48257	.15413	-.02949	.00418	.00398	-.01724	.45322	.22633	2.00243
1.040	11.019	.00704	.60561	.15321	-.04507	.00439	.00302	-.01430	.56516	.26614	2.12356
1.041	13.234	.00819	.73296	.15271	-.06037	.00419	.00275	-.01439	.67854	.31645	2.14421
1.041	15.444	.00922	.85101	.15358	-.07267	.00462	.00243	-.01427	.77938	.37465	2.08030
1.040	17.623	.01249	.96476	.15756	-.08188	.00312	.00032	-.01553	.87178	.44224	1.97127
1.074	19.813	.01457	1.09171	.16225	-.09429	.00363	-.00004	-.01124	.97209	.52267	1.85946

LA-48 8-FT TPT 680 RI-0998/139 CRB SPLIT ELEVON (RH1013)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-10.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-10.000	BDFLAP =	.000
SPOSPK =	25.000		

RUN NO. 97/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.600	-2.045	.00487	-.09740	.06281	.01455	-.00690	-.00056	-.00538	-.09510	.06624	-1.43557
.601	.030	.00668	-.00430	.06450	.01394	-.00656	-.00082	-.00719	-.00433	.06450	-.06716
.601	2.130	.00725	.09415	.06260	.01325	-.00650	-.00145	-.00613	.09176	.06606	1.38909
.600	4.220	.00795	.19363	.05689	.01265	-.00729	-.00179	-.00620	.18992	.07099	2.66122
.600	6.309	.00734	.30291	.04792	.01084	-.00828	-.00224	-.00399	.29580	.08092	3.65549
.600	8.411	.00640	.41626	.03732	.00822	-.00899	-.00243	-.00257	.40632	.09780	4.15439
.599	10.517	.00558	.52672	.04814	-.00676	-.00776	-.00191	-.00174	.50908	.14348	3.54824
.600	12.598	.00492	.64519	.05075	-.01593	-.00839	-.00223	-.00063	.61859	.19024	3.25160
.599	14.714	.00530	.77147	.05238	-.02479	-.00968	-.00236	-.00087	.73297	.24662	2.97165
.599	16.809	.00494	.88581	.06010	-.03602	-.00944	-.00222	-.00084	.83154	.31399	2.64835
.601	18.924	.00646	1.01471	.05962	-.04241	-.00695	-.00220	-.00326	.94085	.38453	2.44673

LA-48 8-FT TPT 680 RI-0998/139 CRB SPLIT ELEVON (RH1014)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-20.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-20.000	BDFLAP =	.000
SPOSPK =	25.000		

RUN NO. 98/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.600	-2.077	.00535	-.14433	.06634	.01714	.00720	-.00110	-.00446	-.14183	.07153	-1.98277
.601	.024	.00710	-.04282	.06824	.01424	-.00677	-.00141	-.00601	-.04265	.06822	-.62515
.600	2.112	.00934	.05392	.06663	.01275	-.00640	-.00180	-.00415	.05143	.06857	.75004
.599	4.193	.00824	.15310	.06057	.01067	-.00592	-.00193	-.00253	.14923	.07200	2.07276
.600	6.300	.00841	.25420	.05195	.00278	-.00563	-.00232	-.00530	.25094	.07997	3.13798
.599	8.349	.00802	.36460	.04156	.00343	-.00583	-.00233	-.00477	.35540	.09486	3.77830
.600	10.476	.00595	.48040	.05177	.01451	-.00196	-.00122	-.00309	.46297	.13826	3.34859
.600	12.581	.00576	.59682	.05592	.01218	-.00512	-.00237	-.00143	.56035	.18236	3.07274
.600	14.734	.00606	.70515	.05662	.00583	-.00785	-.00270	-.00096	.66769	.23375	2.93633
.600	16.737	.00621	.81746	.06265	-.00411	-.00778	-.00270	-.00131	.76468	.29569	2.58622
.599	18.893	.00758	.94874	.05999	-.01143	-.00621	-.00248	-.00297	.87822	.36391	2.41327

LA-48 8-FT TPT 680 RI-0898/139 GRB SPLIT ELEVON (RH1015)

PARAMETRIC DATA

BETA =	.000	ELV-LO =	-30.000
ELV-LI =	.000	ELV-RI =	.000
ELV-RO =	-30.000	DSFLAP =	.000
SPDBRK =	25.000		

RUN NO. 99/ 0

MACH	ALPHA	BETA	CN	CA	CLM	CBL	CYN	CY	CL	CD	L/D
.599	-2.102	.00652	-.19817	.07439	.05155	-.00730	-.00176	-.00418	-.19531	.08161	-2.39328
.602	-.010	.00803	-.09248	.07620	.05645	-.00725	-.00201	-.00555	-.09248	.07622	-1.21311
.601	2.092	.00911	.01231	.07405	.05195	-.00700	-.00233	-.00620	.00960	.07445	.12896
.602	4.188	.00968	.11793	.06974	.04974	-.00710	-.00264	-.00609	.11260	.07717	1.45907
.601	6.306	.00815	.22855	.05921	.04603	-.00743	-.00277	-.00351	.22066	.08395	2.62946
.600	8.375	.00732	.34175	.04974	.04157	-.00719	-.00260	-.00292	.33586	.09999	3.35269
.599	10.490	.00657	.48983	.05421	.01106	-.00534	-.00205	-.00353	.47079	.14230	3.30851
.600	12.593	.00623	.59069	.05844	.00949	-.00428	-.00211	-.00299	.58374	.19613	2.97567
.599	14.674	.00613	.68965	.06254	.01087	-.00473	-.00213	-.00279	.65131	.23520	2.76915
.600	16.761	.00630	.80009	.06763	.00332	-.00499	-.00225	-.00216	.74669	.29549	2.52672
.600	18.872	.00727	.91206	.07535	-.01333	-.00441	-.00239	-.00162	.84177	.36742	2.29130